

Figure 1

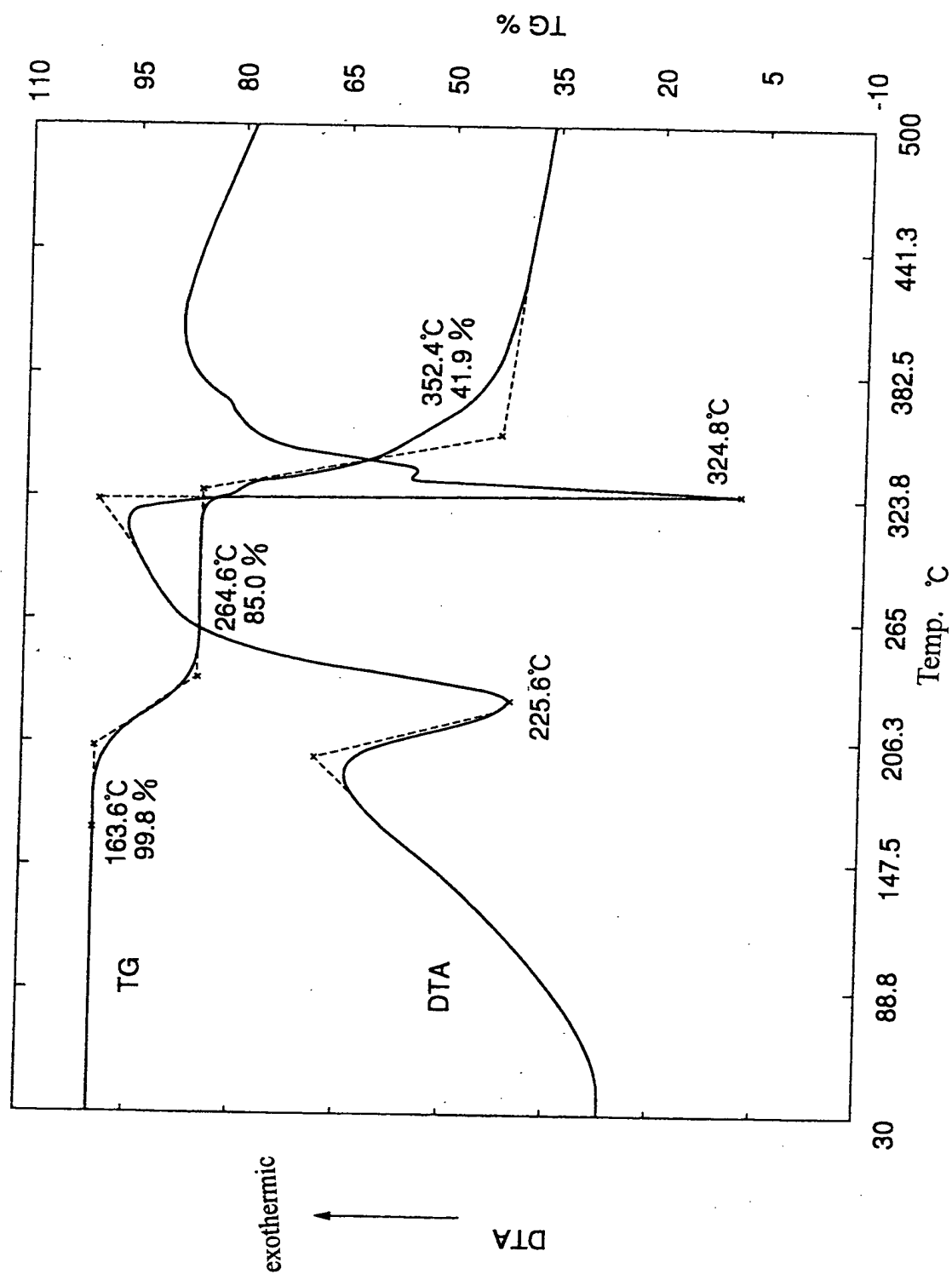


Figure 2

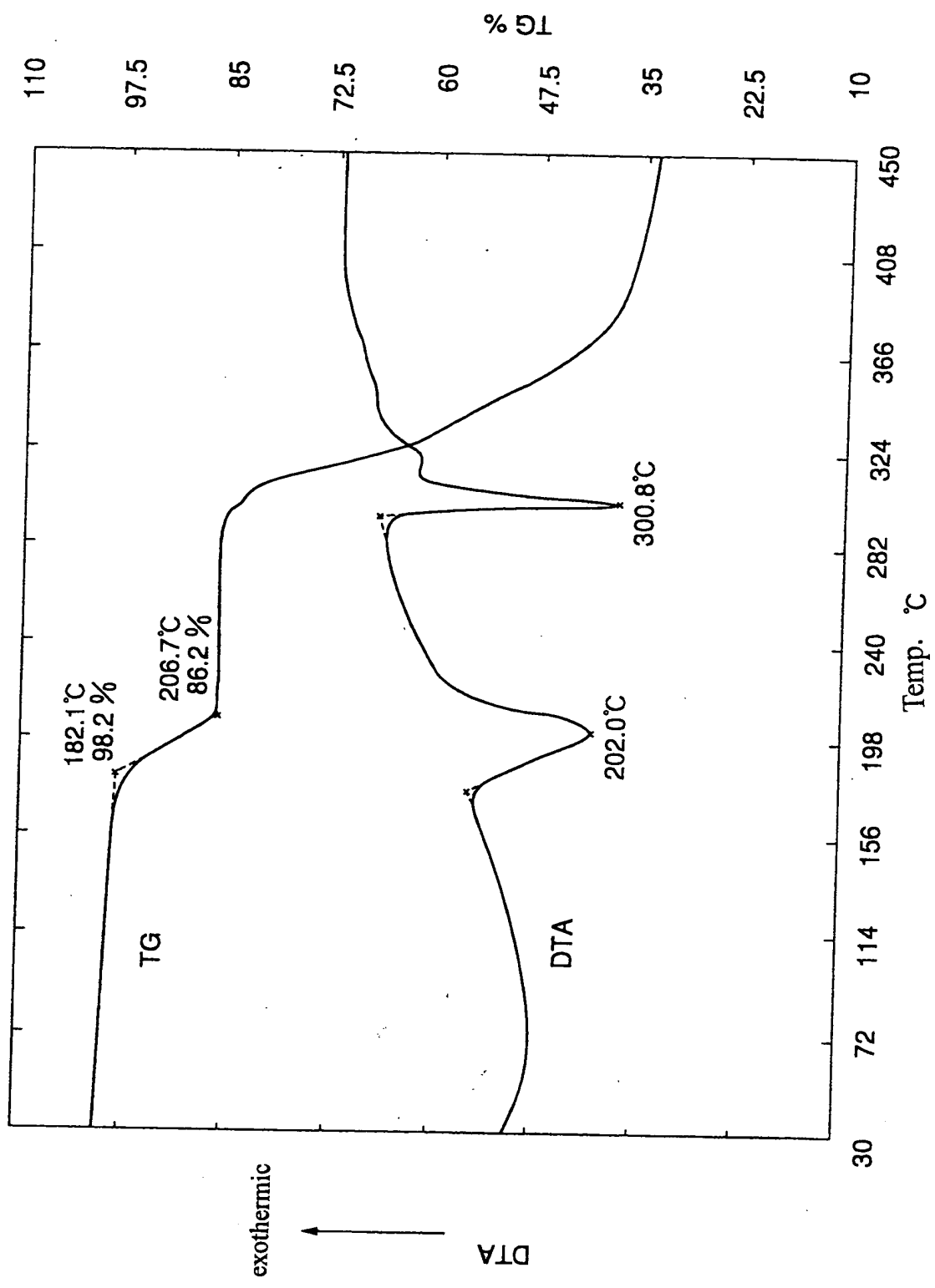


Figure 3

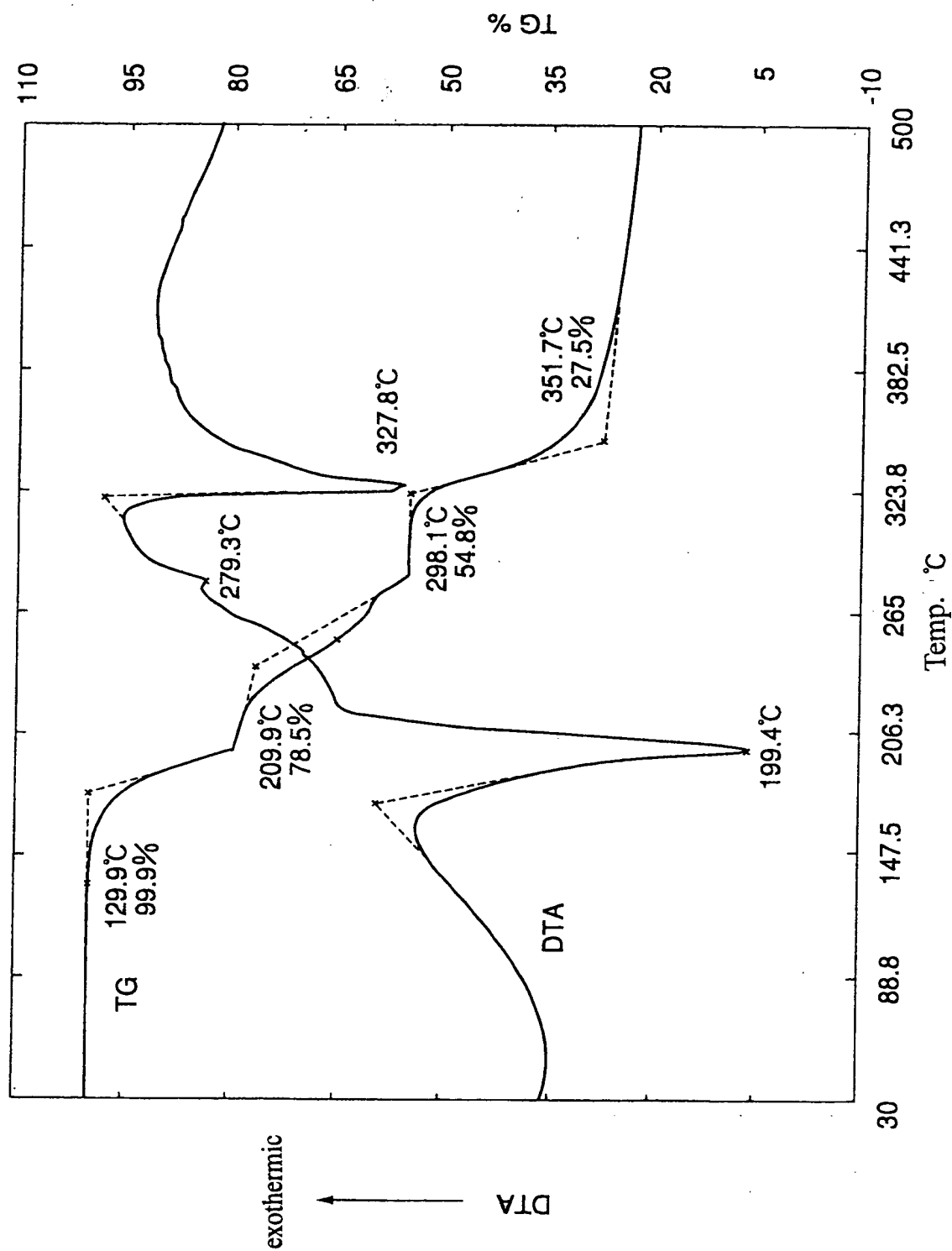


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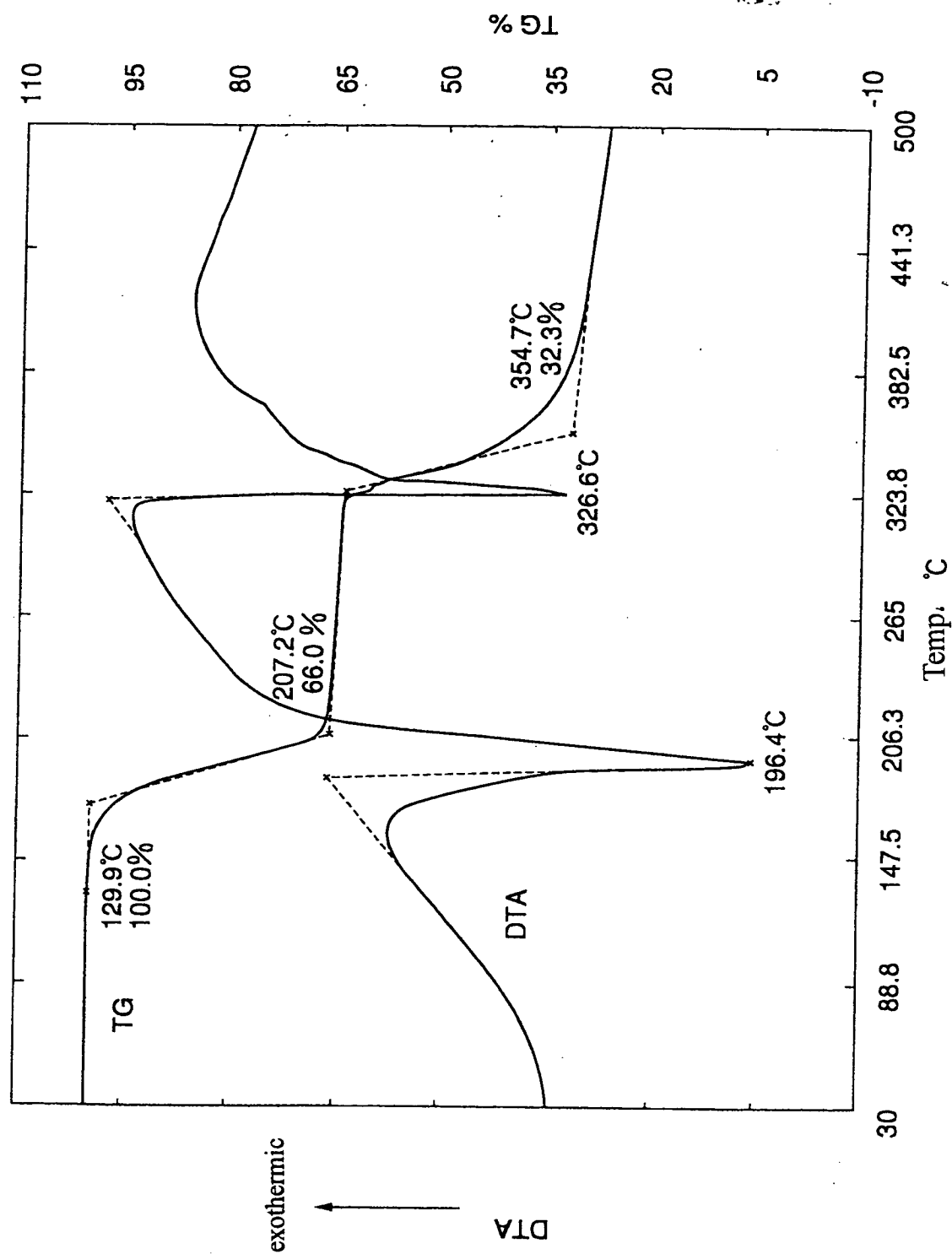
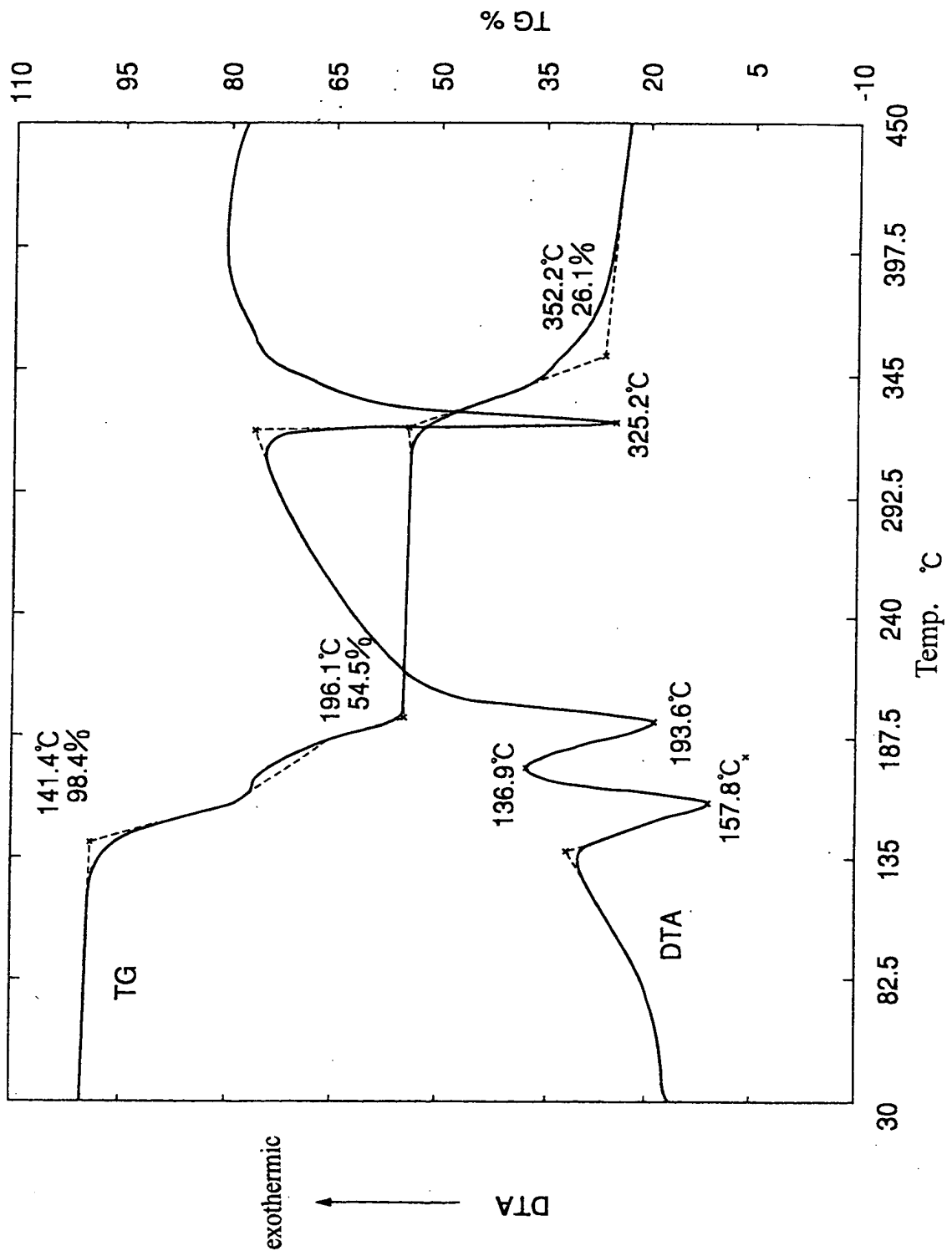


Figure 5





7172

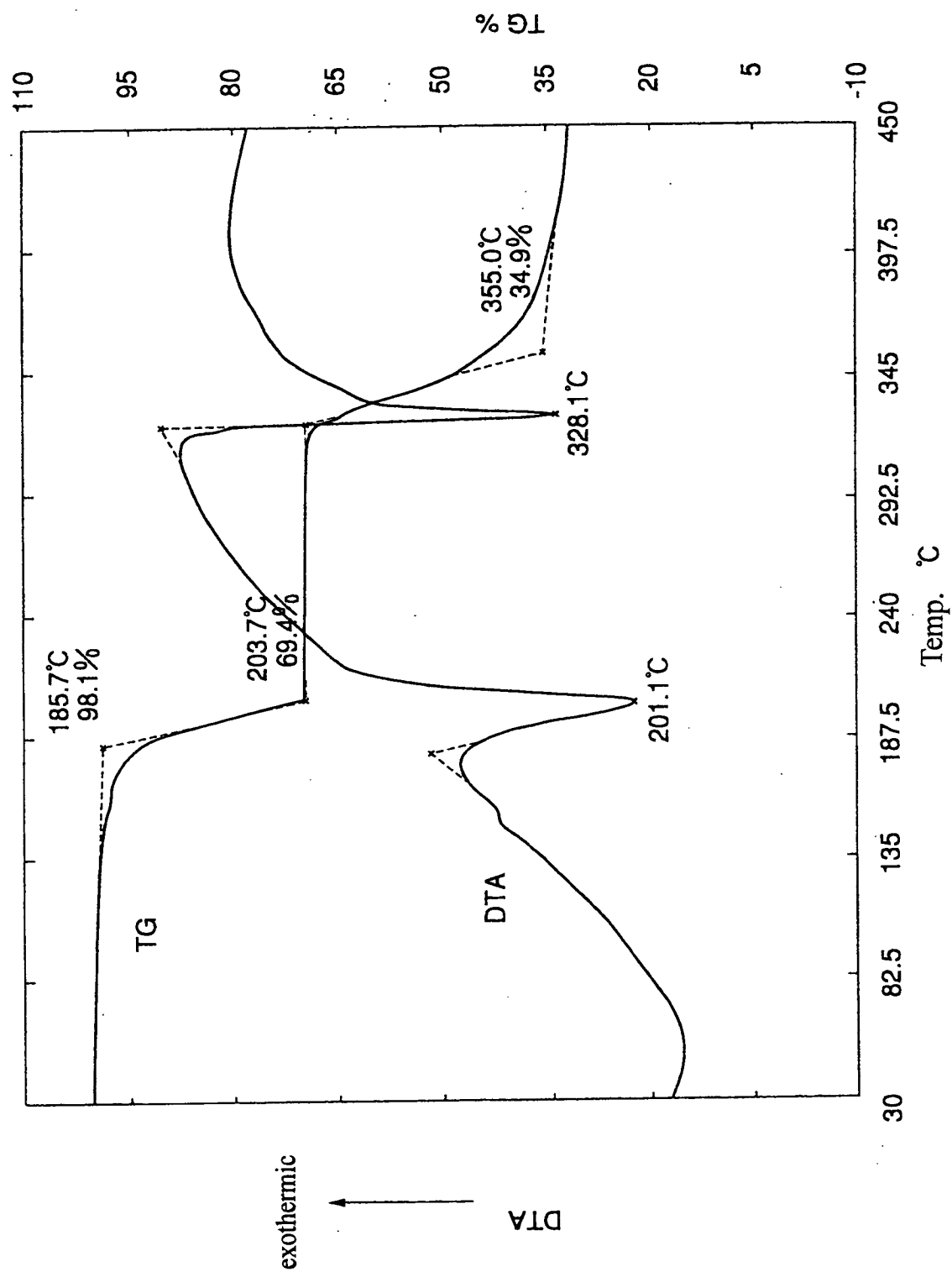






Figure 9

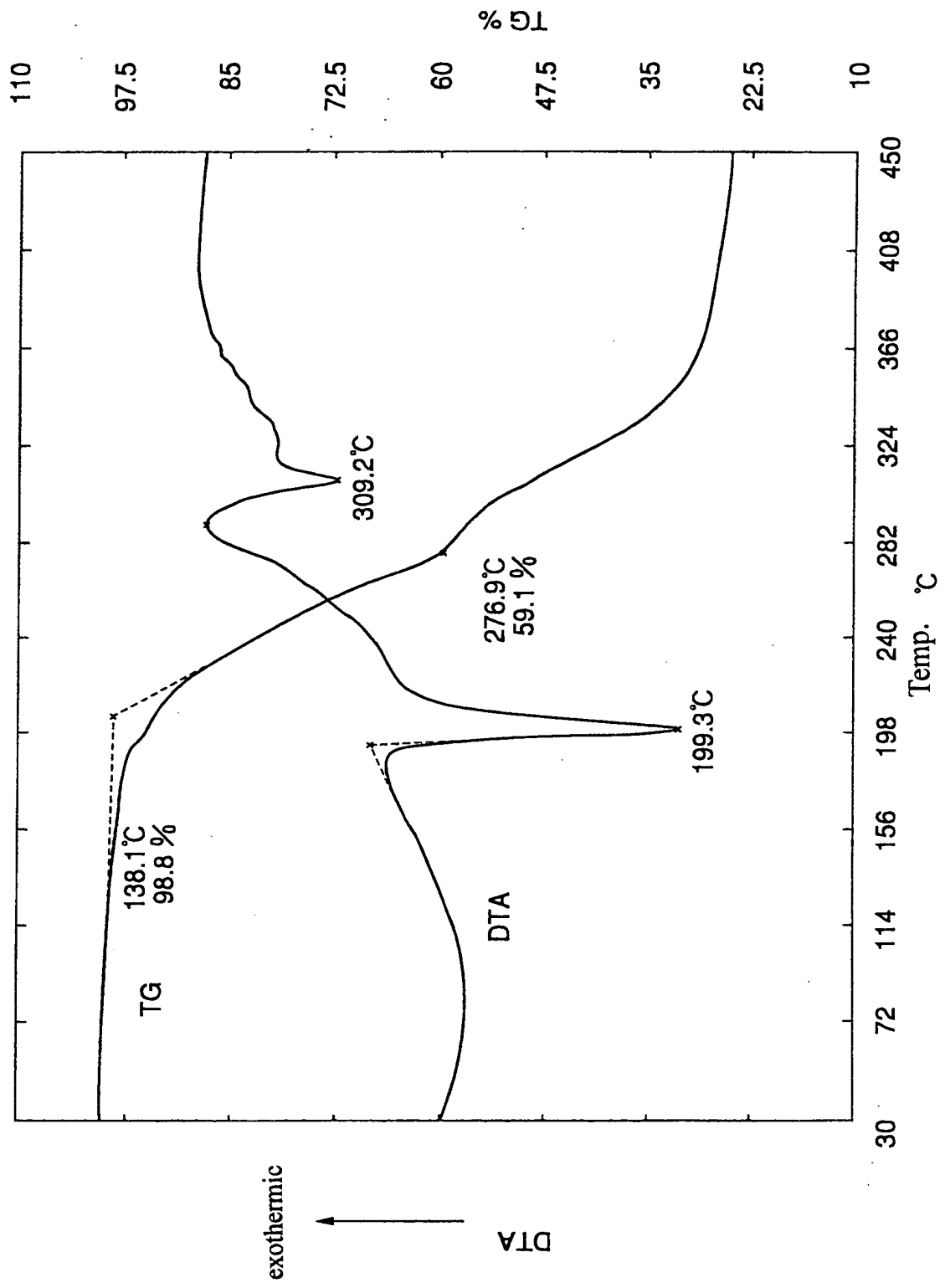


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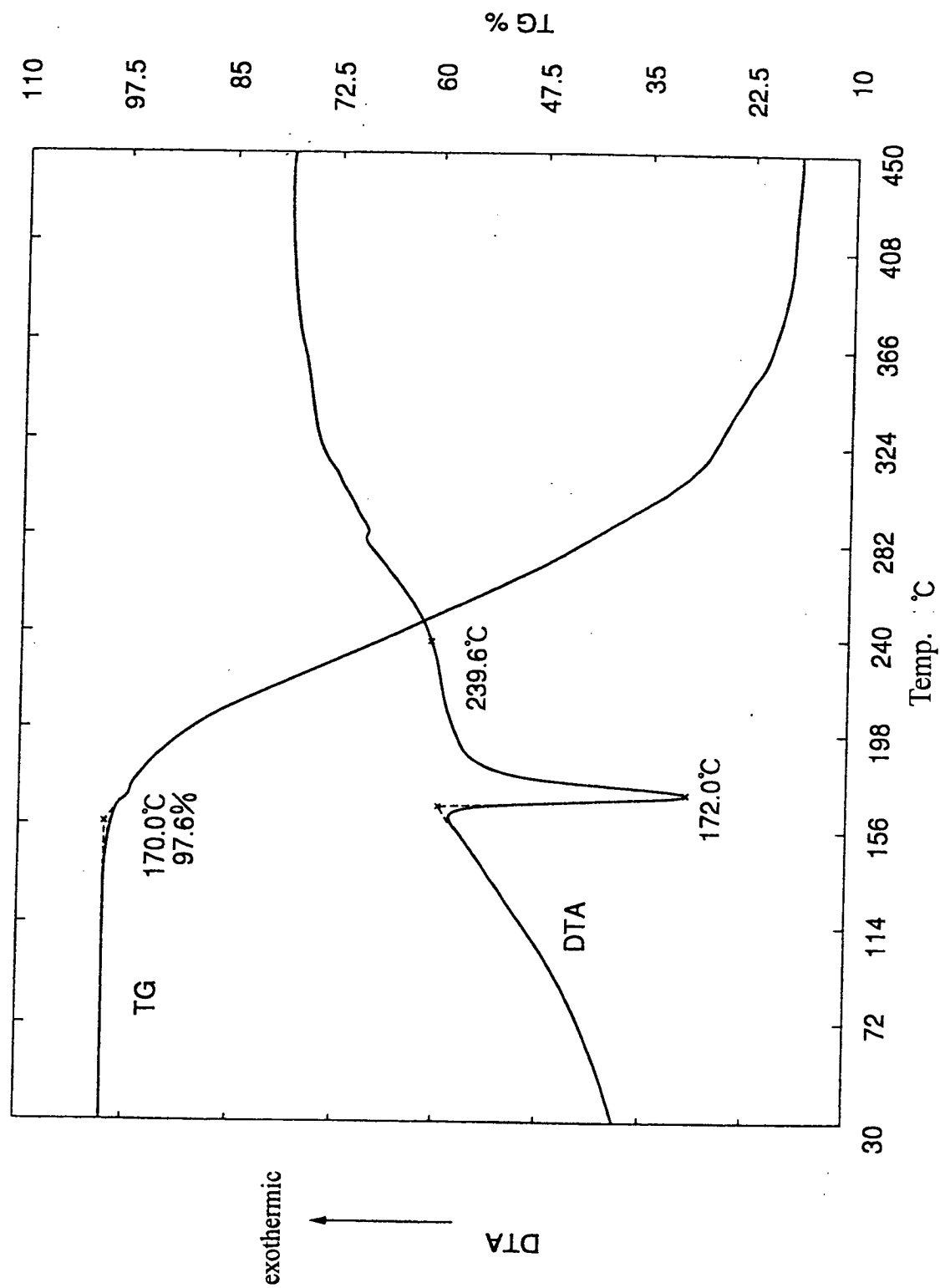


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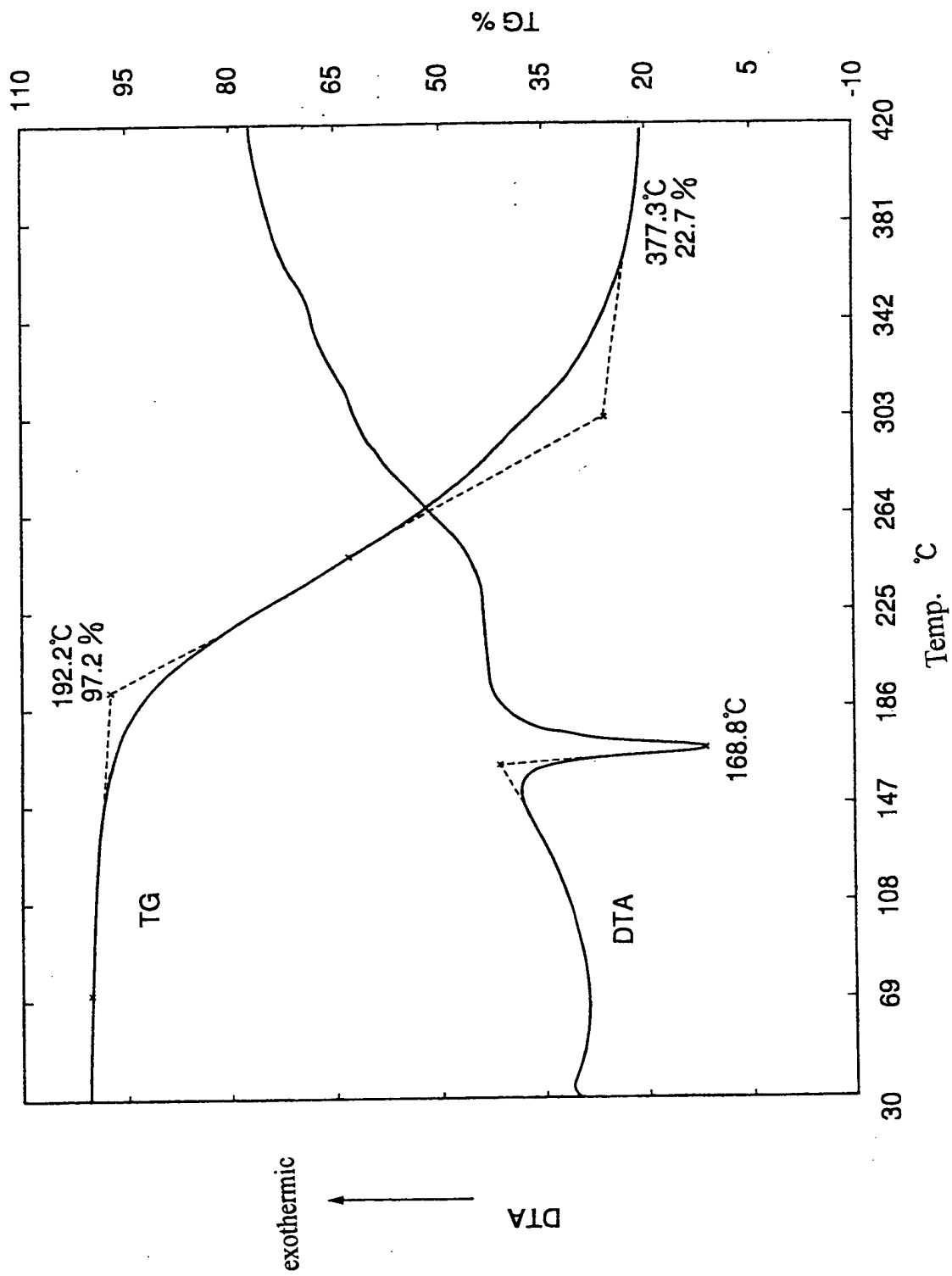


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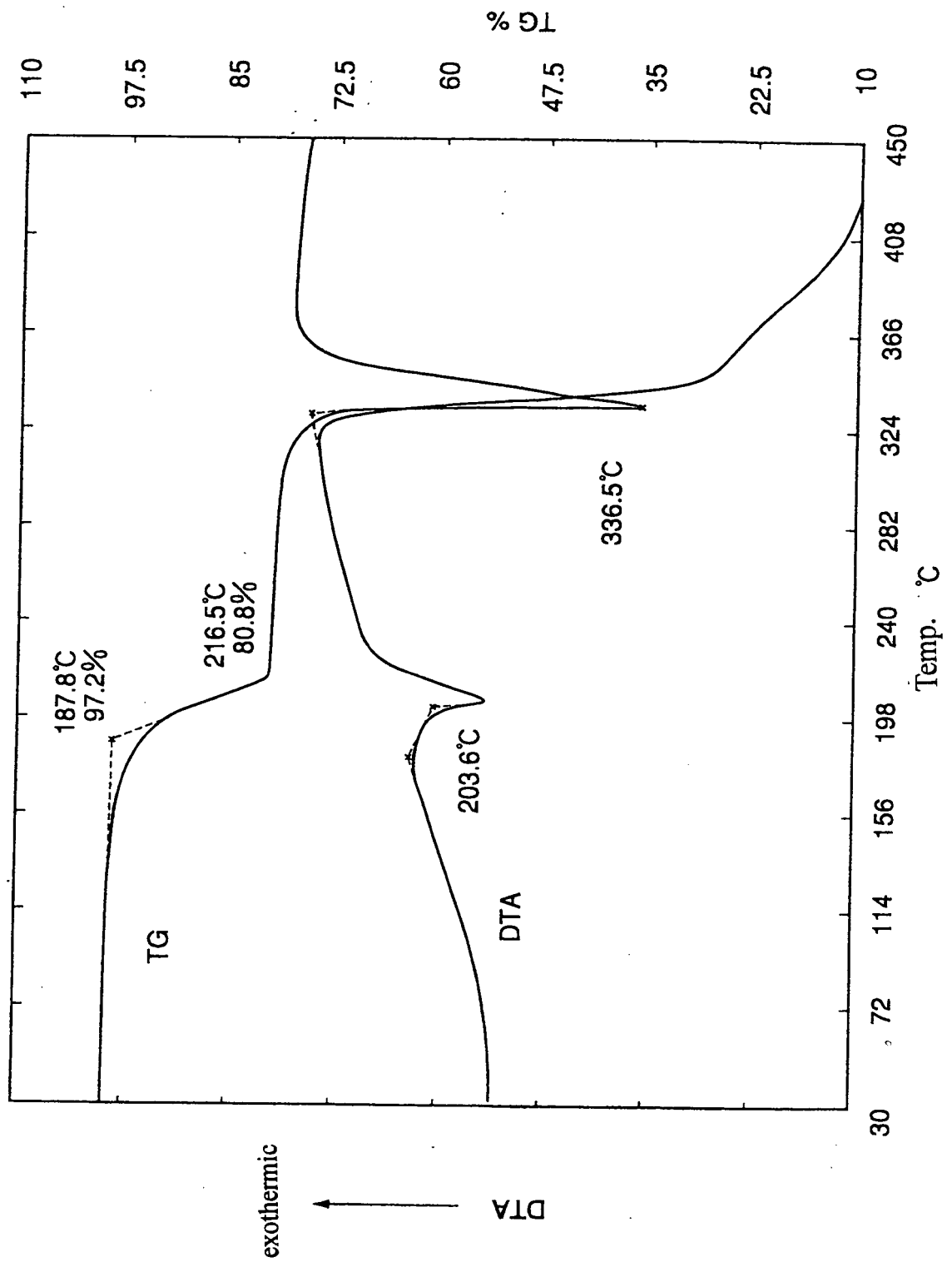


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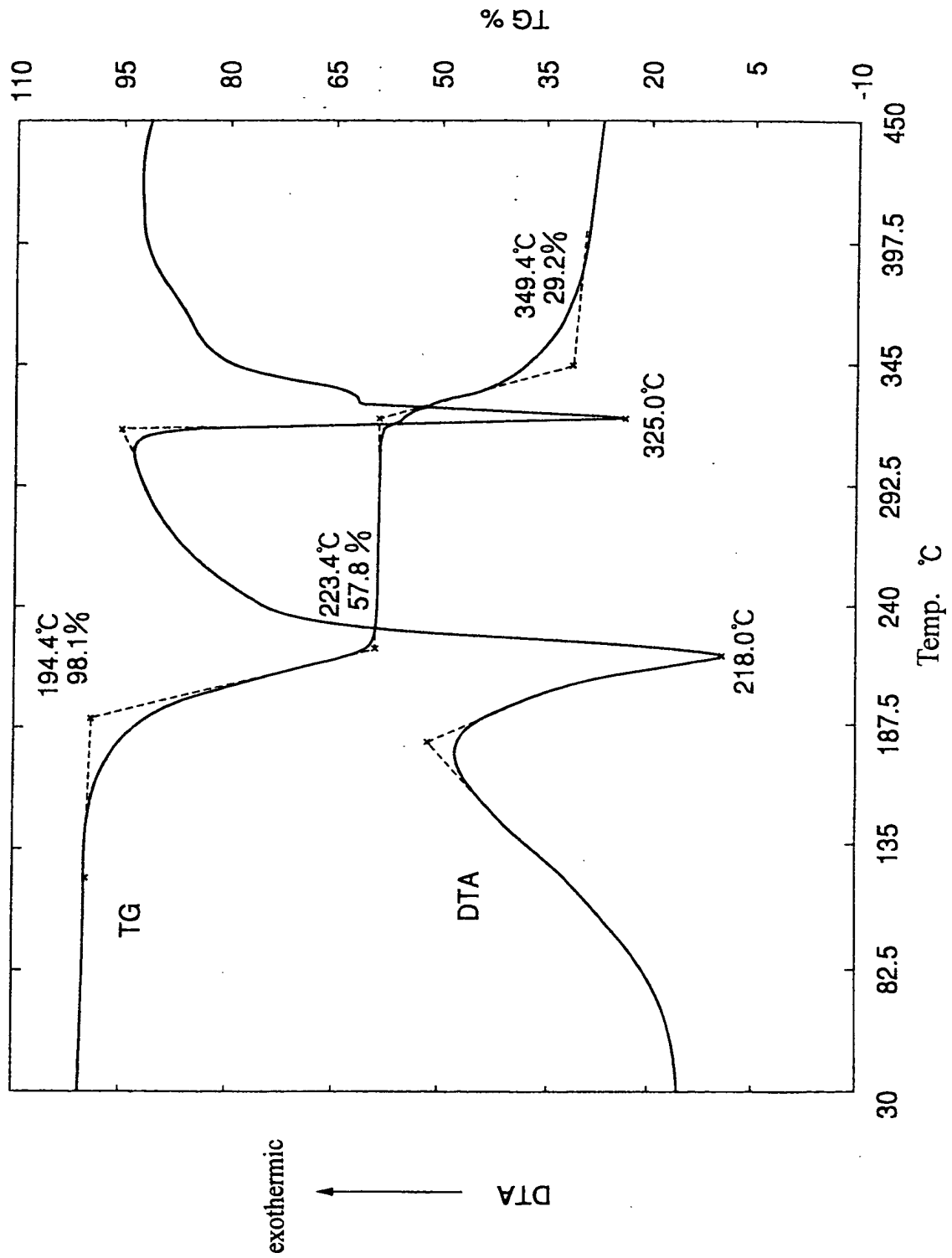
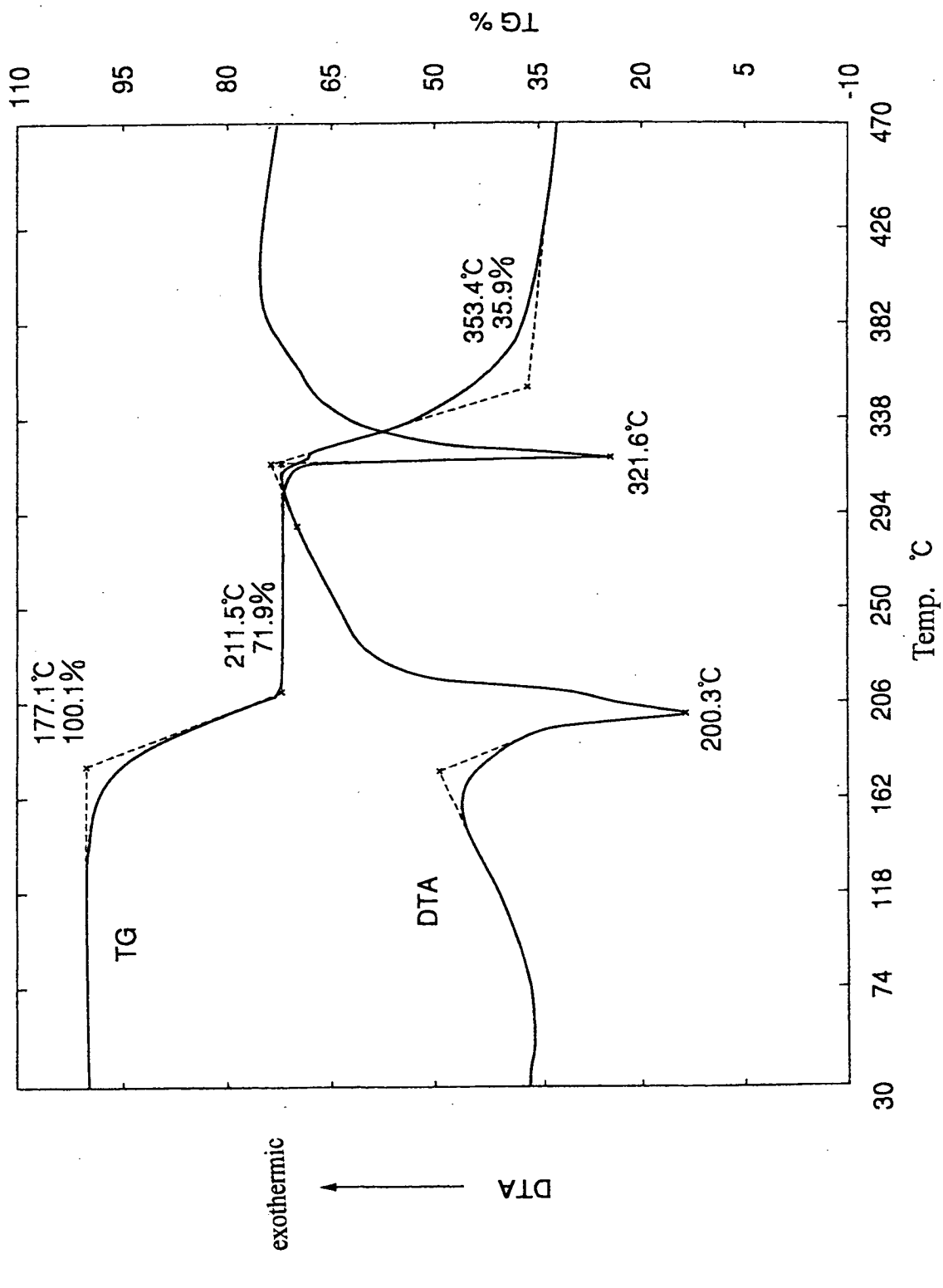


Figure 14



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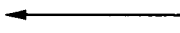


Figure 16

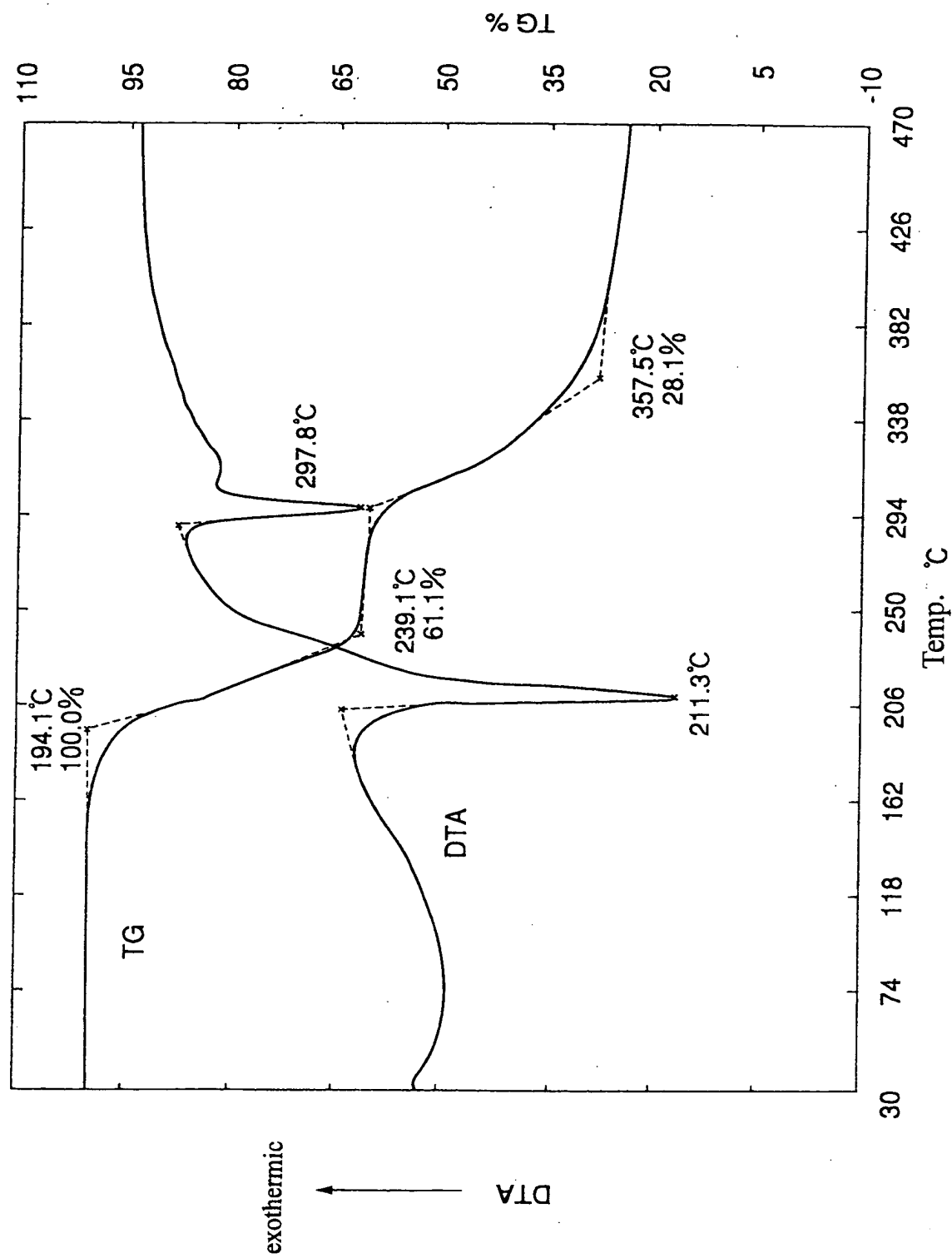




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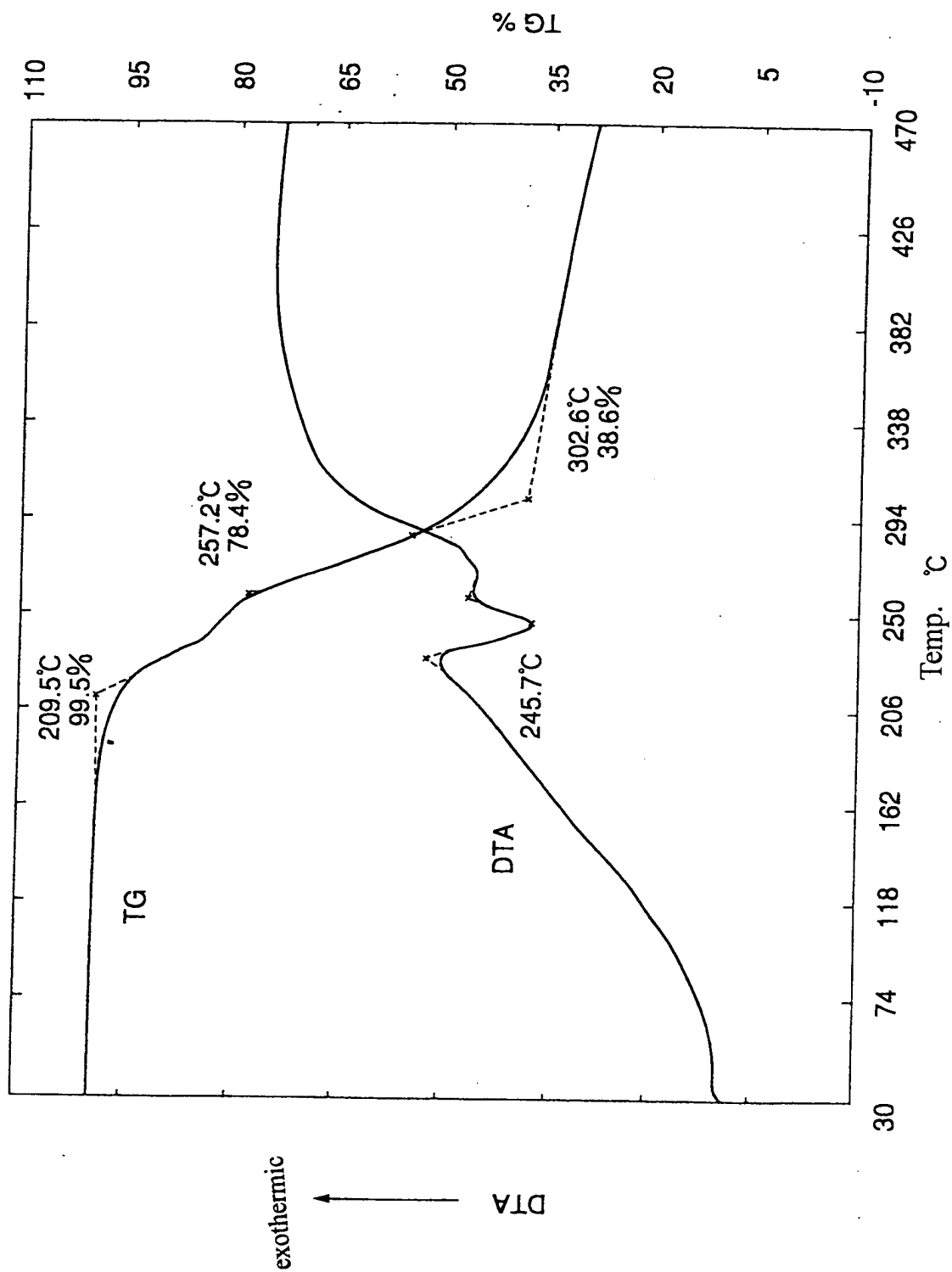


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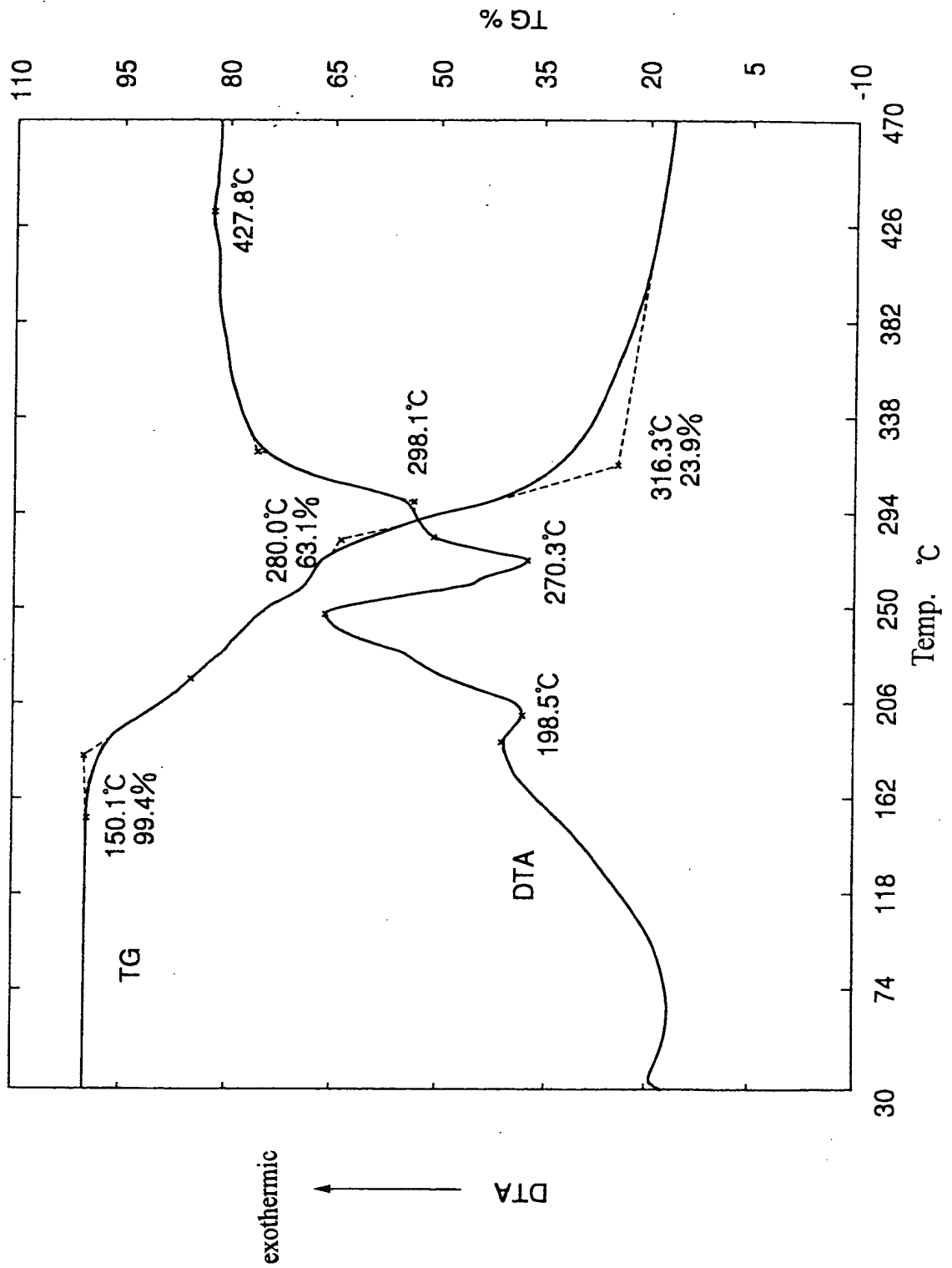


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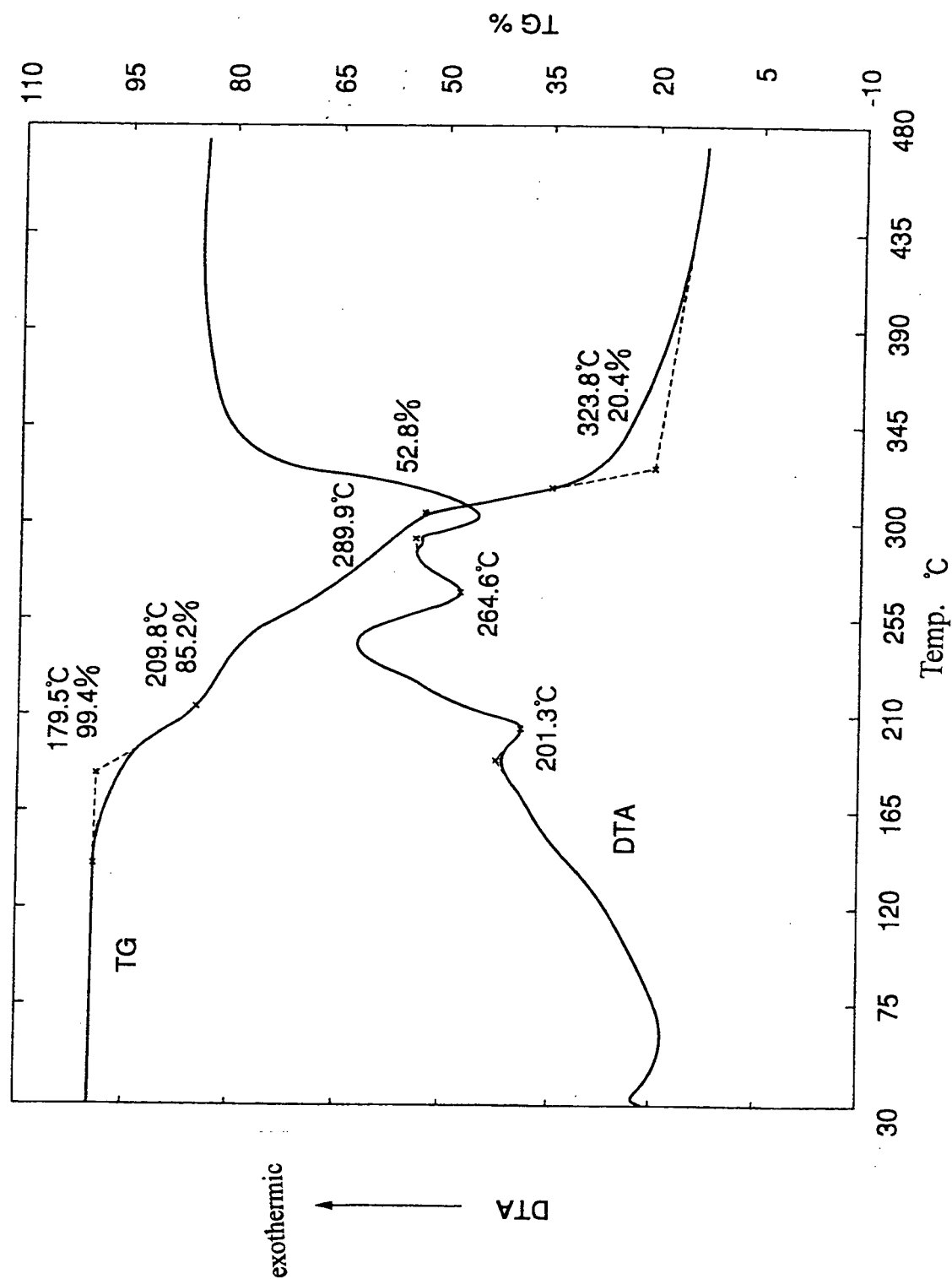
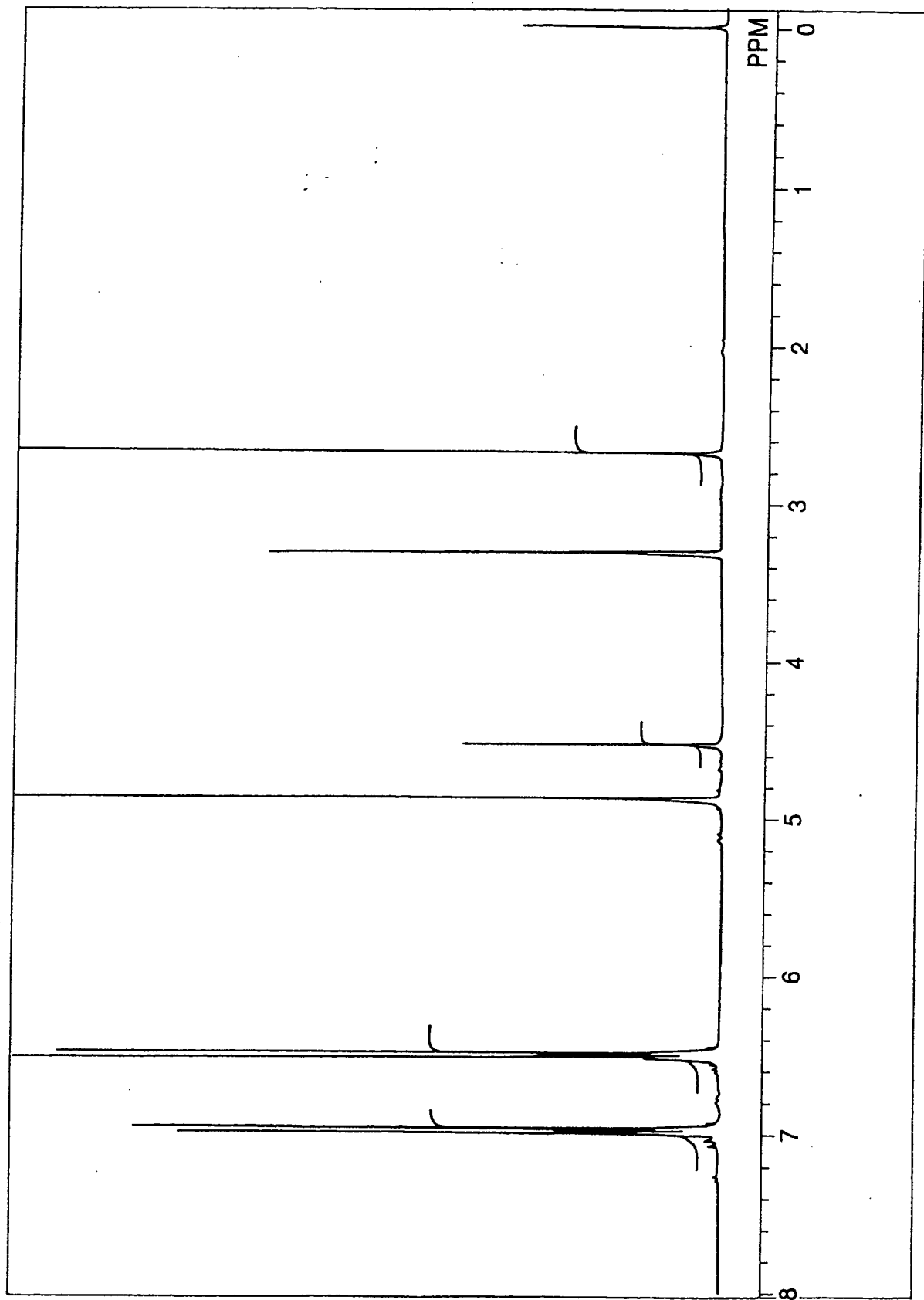


Figure 20







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Figure 23

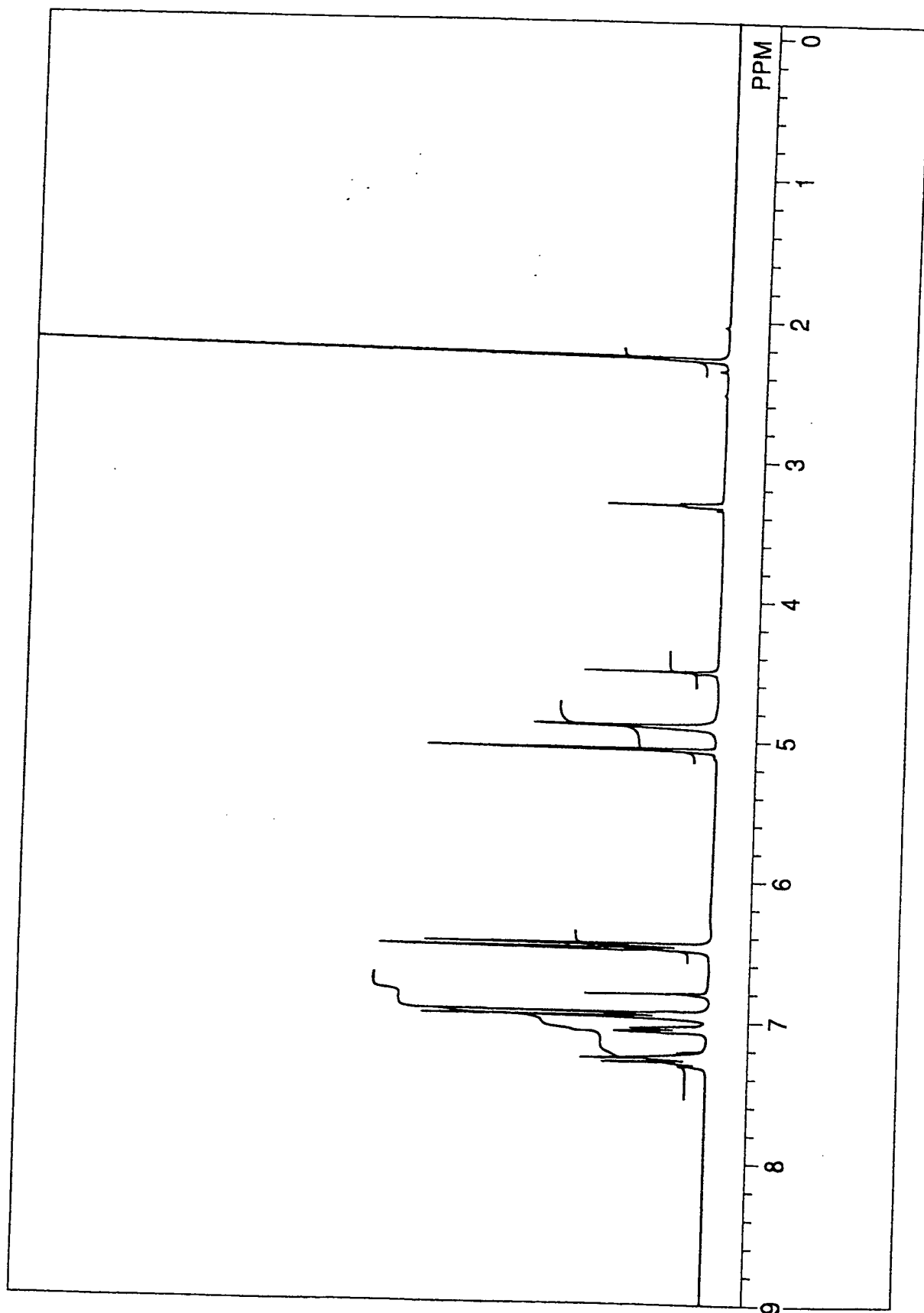
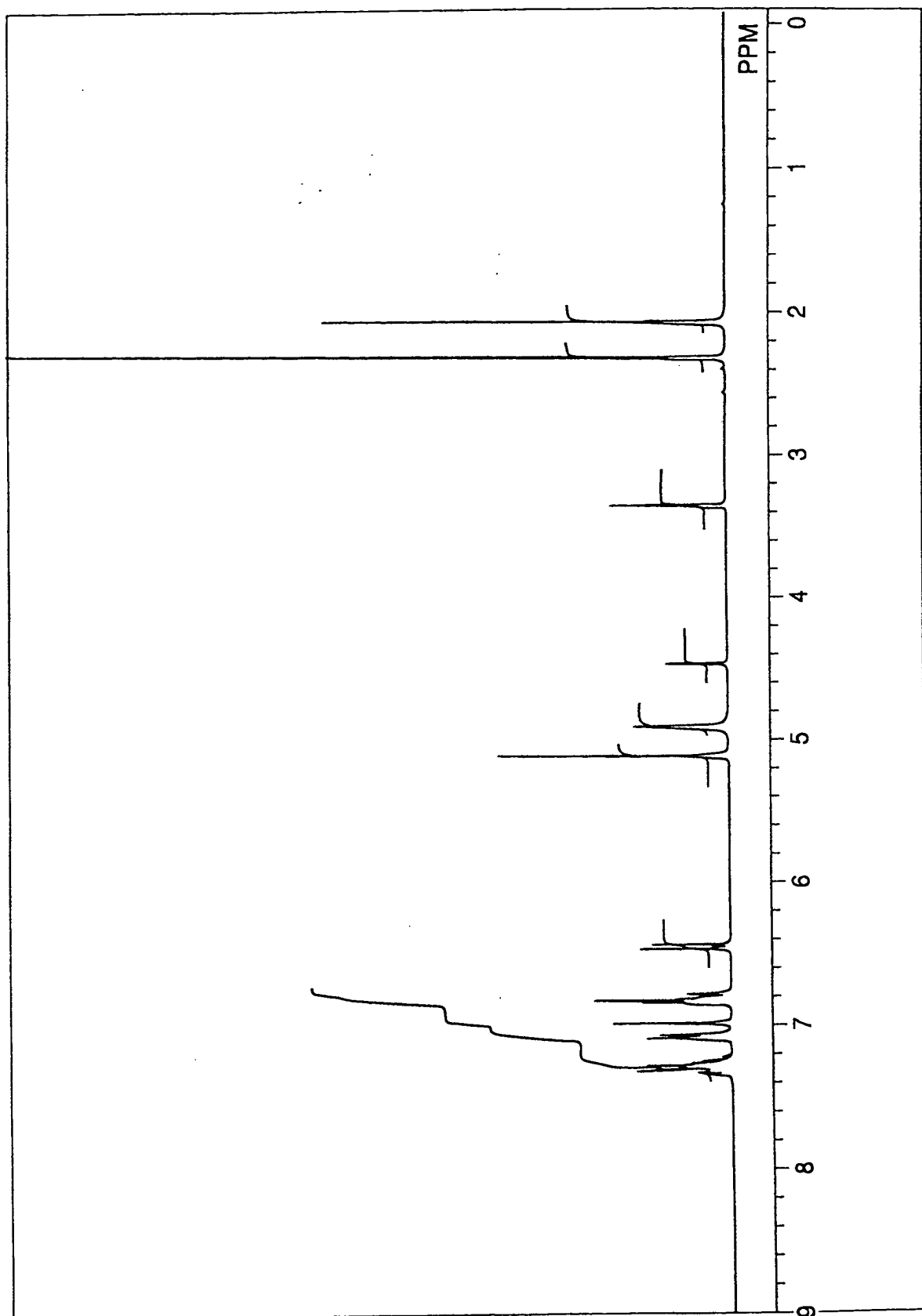


Figure 24





The infrared spectrum of polyacetylene displays characteristic absorption bands. A broad peak is observed around 3300 cm⁻¹, corresponding to the C-H stretching vibration. A very sharp and intense peak is located at approximately 2100 cm⁻¹, characteristic of the C≡C stretching vibration. The region between 1600 and 1400 cm⁻¹ shows several sharp peaks, which are typical for the C=C stretching and various C-H bending vibrations in the conjugated system.





Figure 28

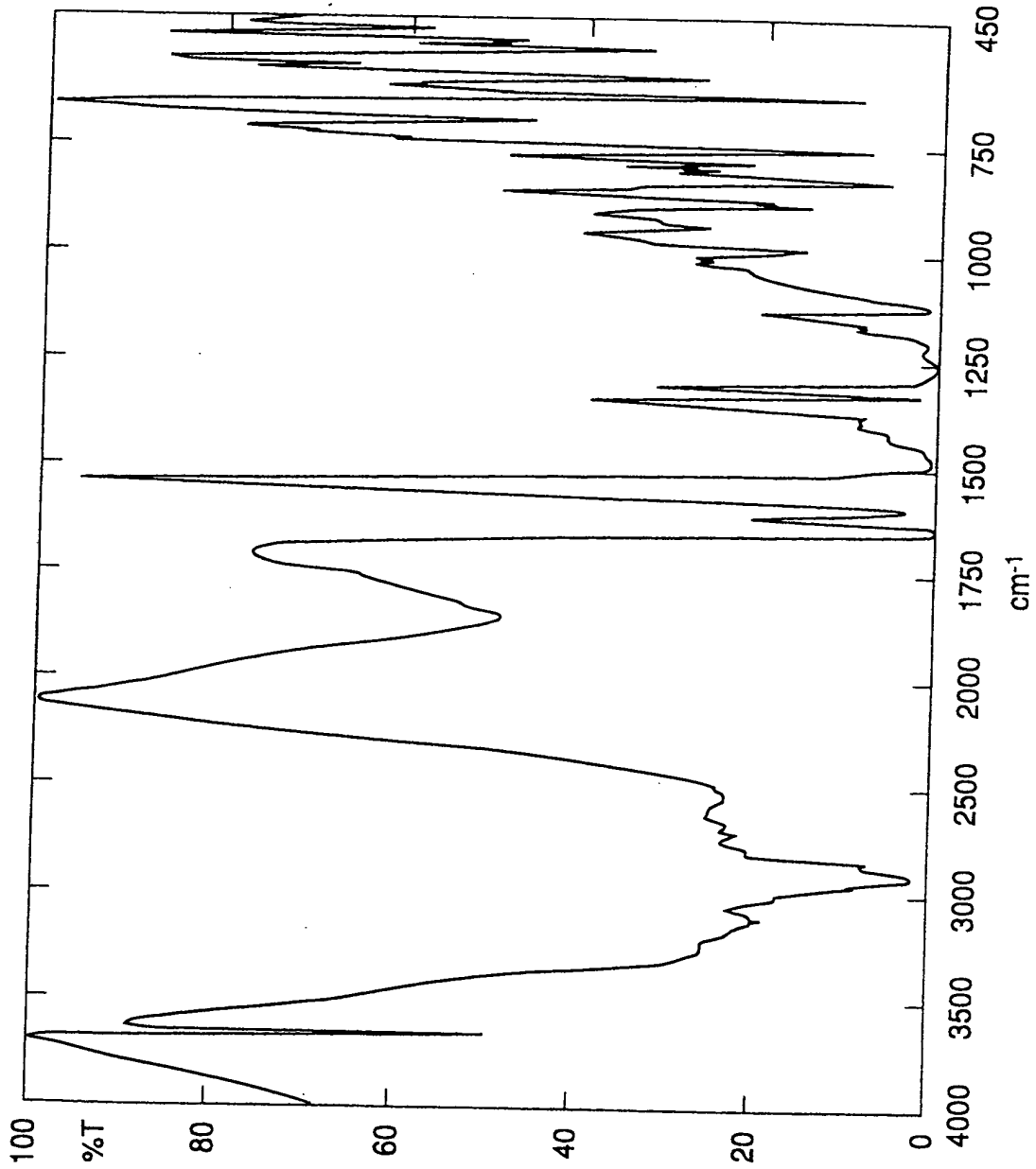


Figure 29

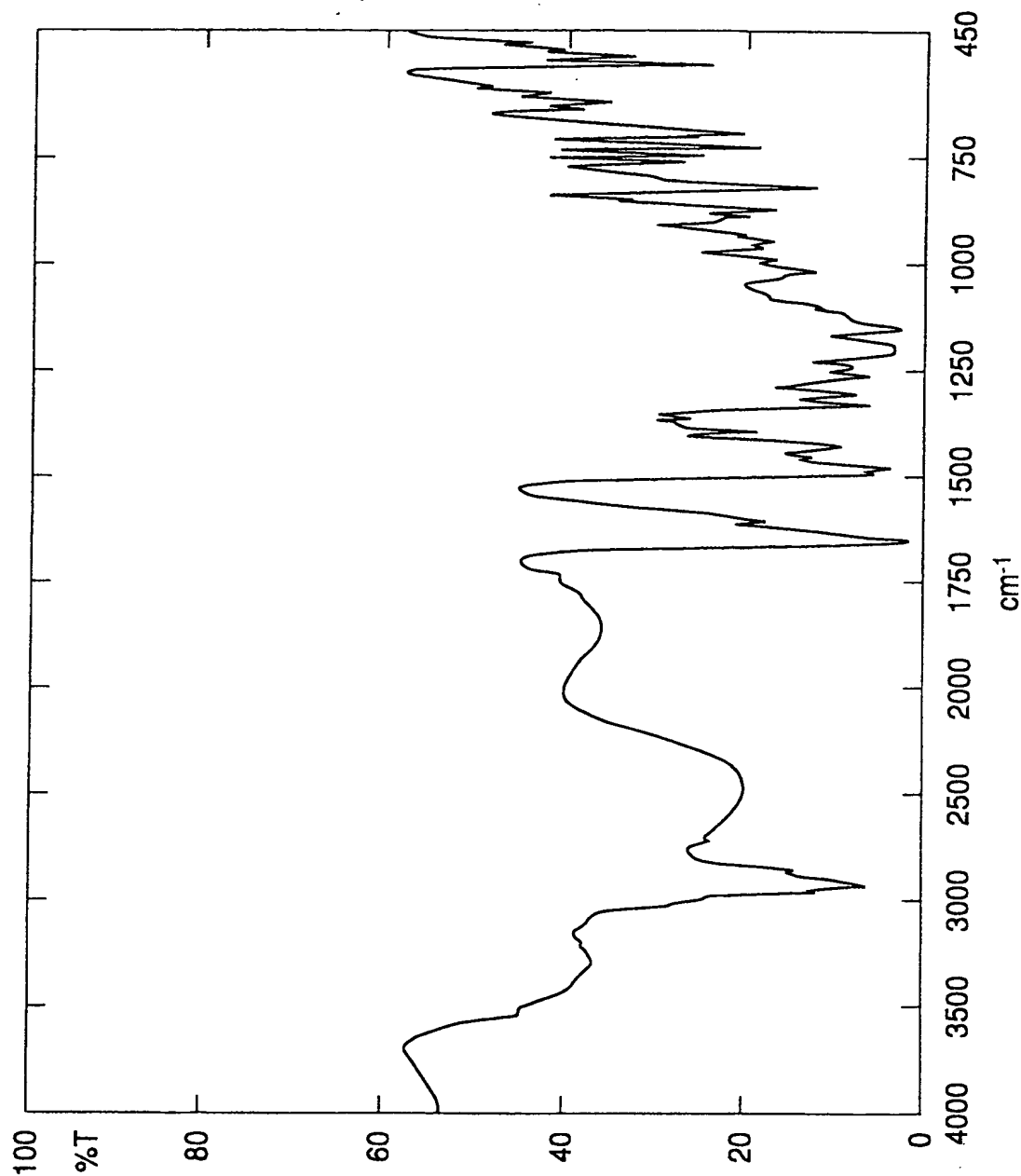
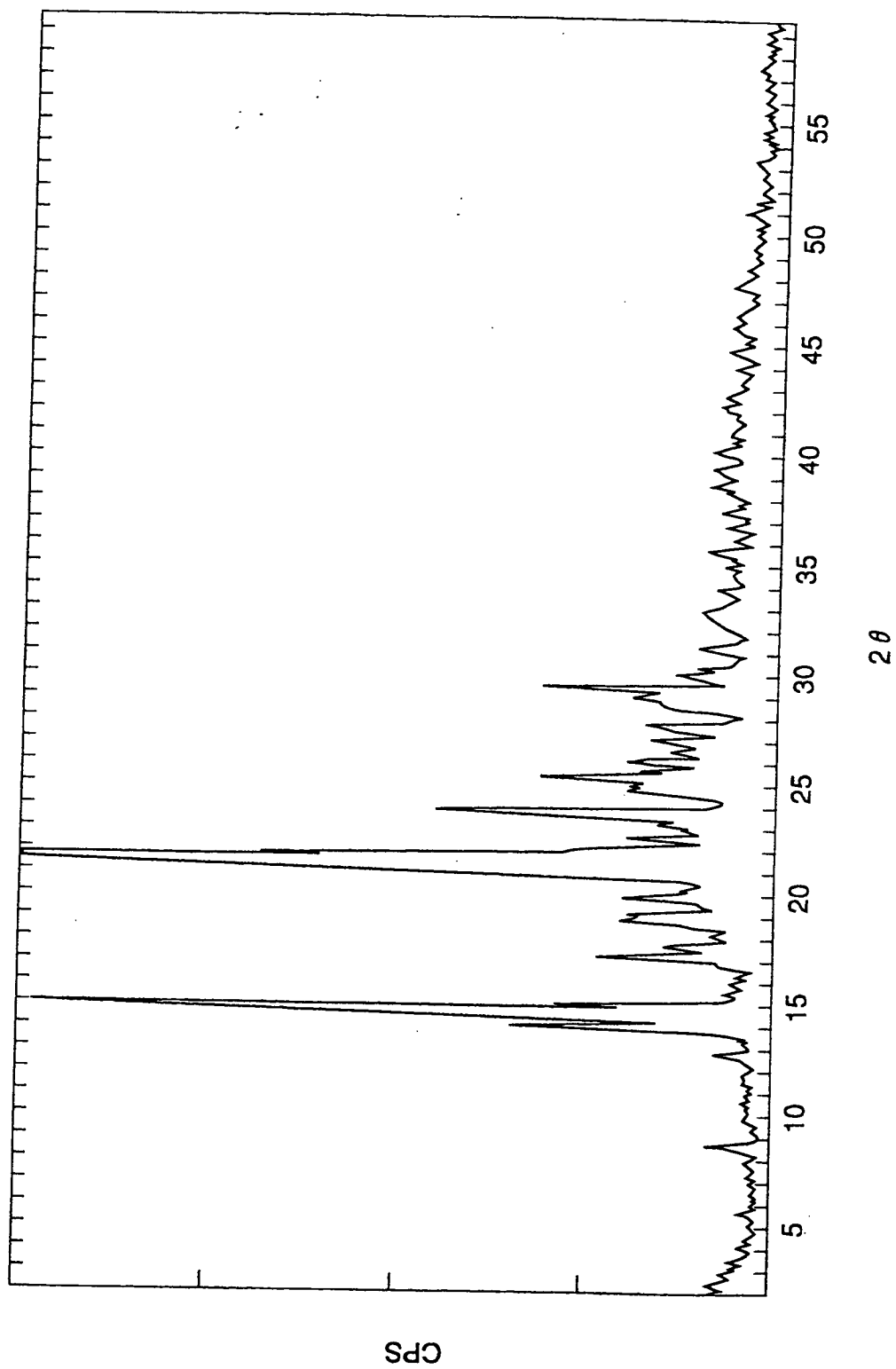




Figure31



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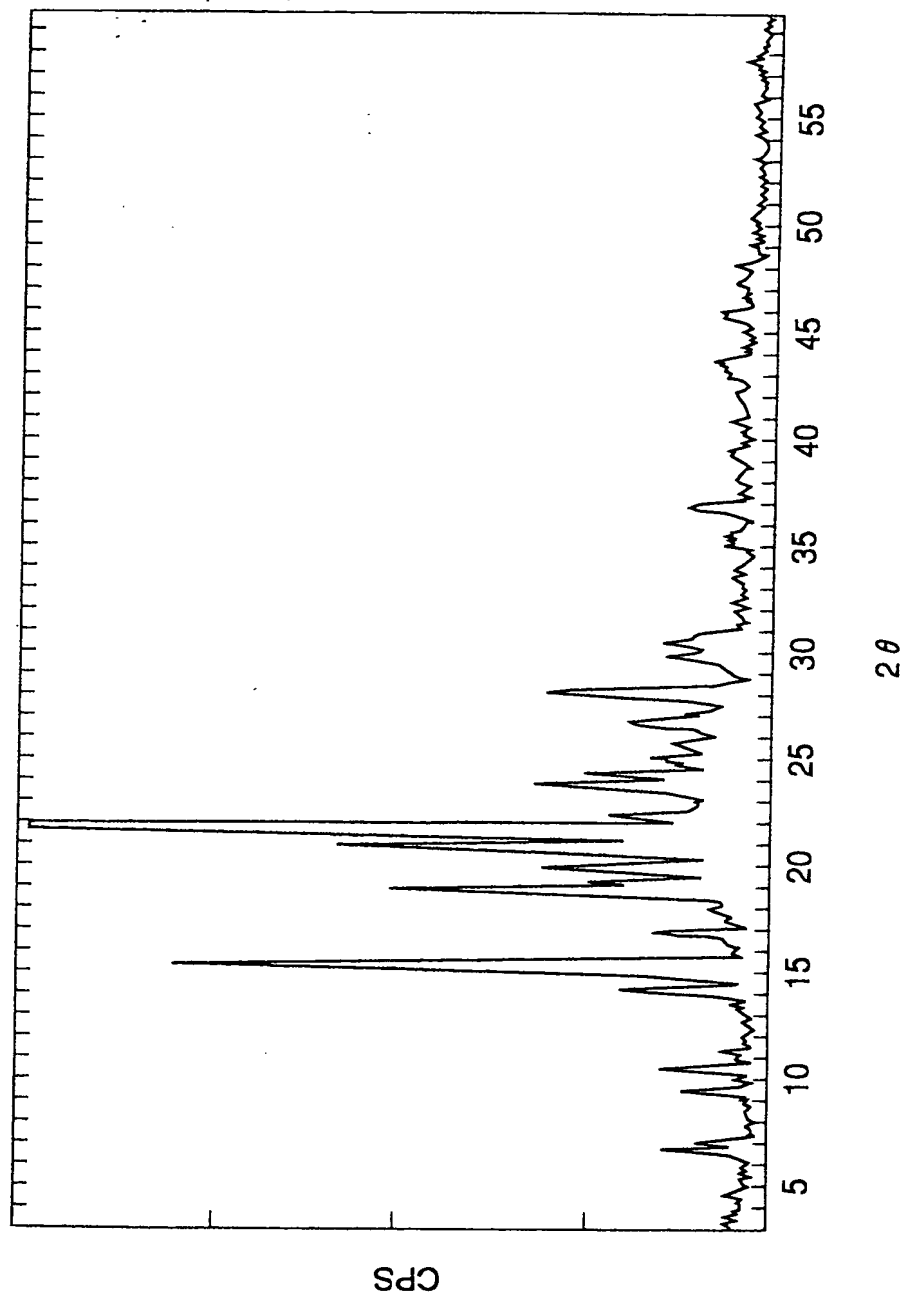




Figure 33

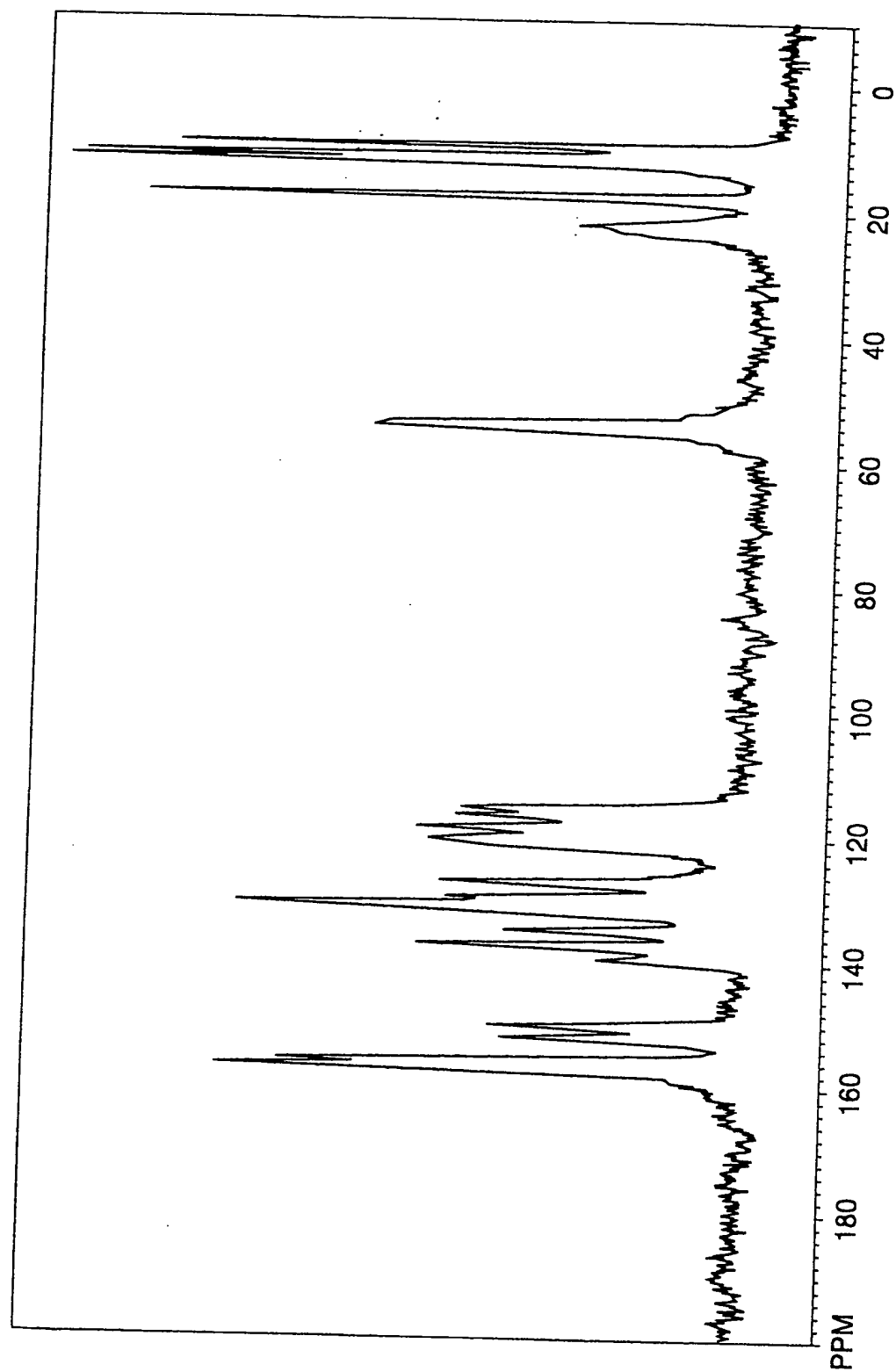


Figure 34

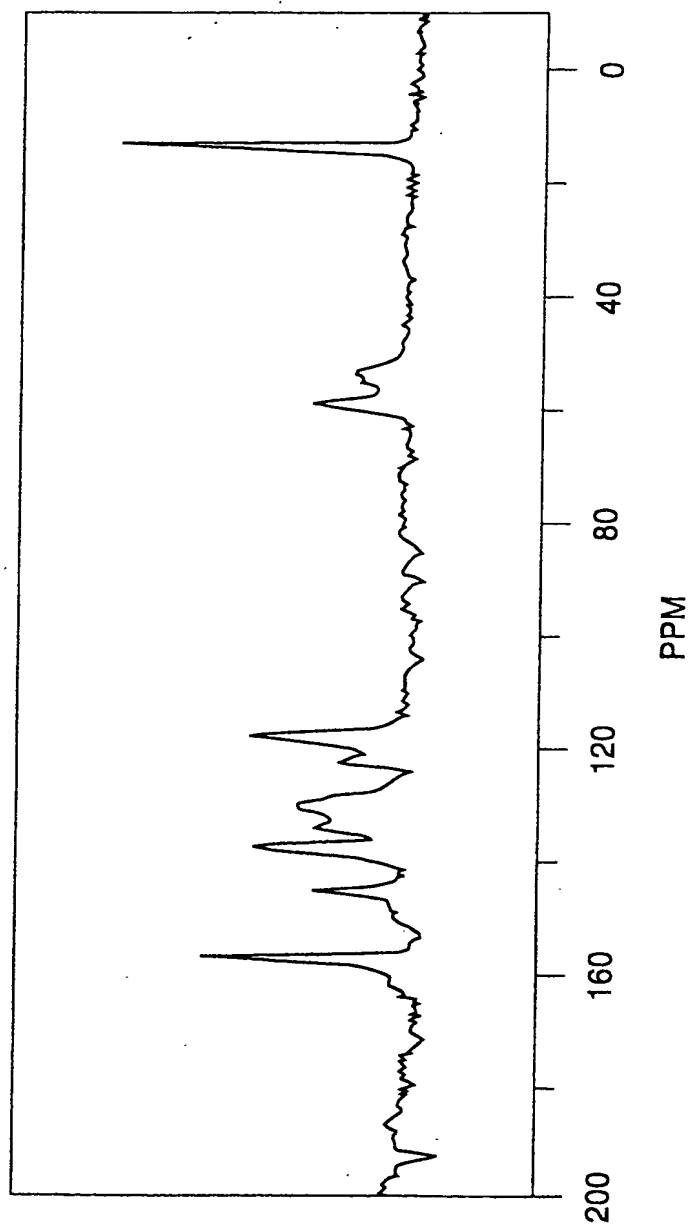


Figure 35

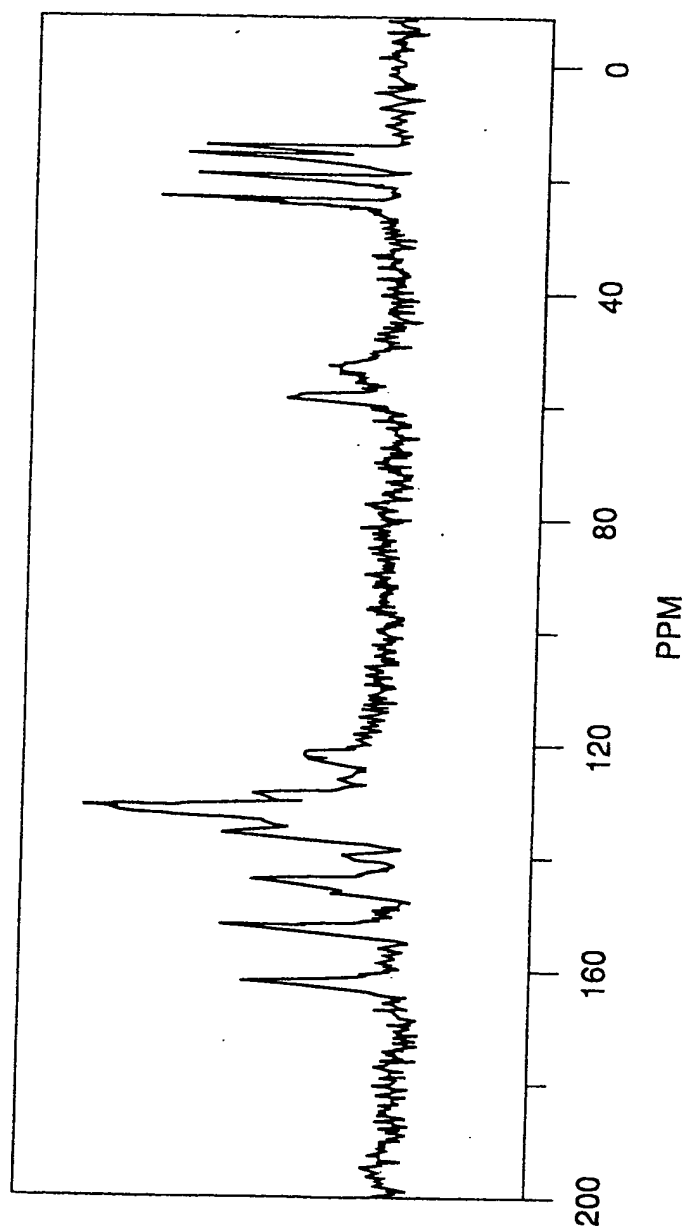


Figure 36

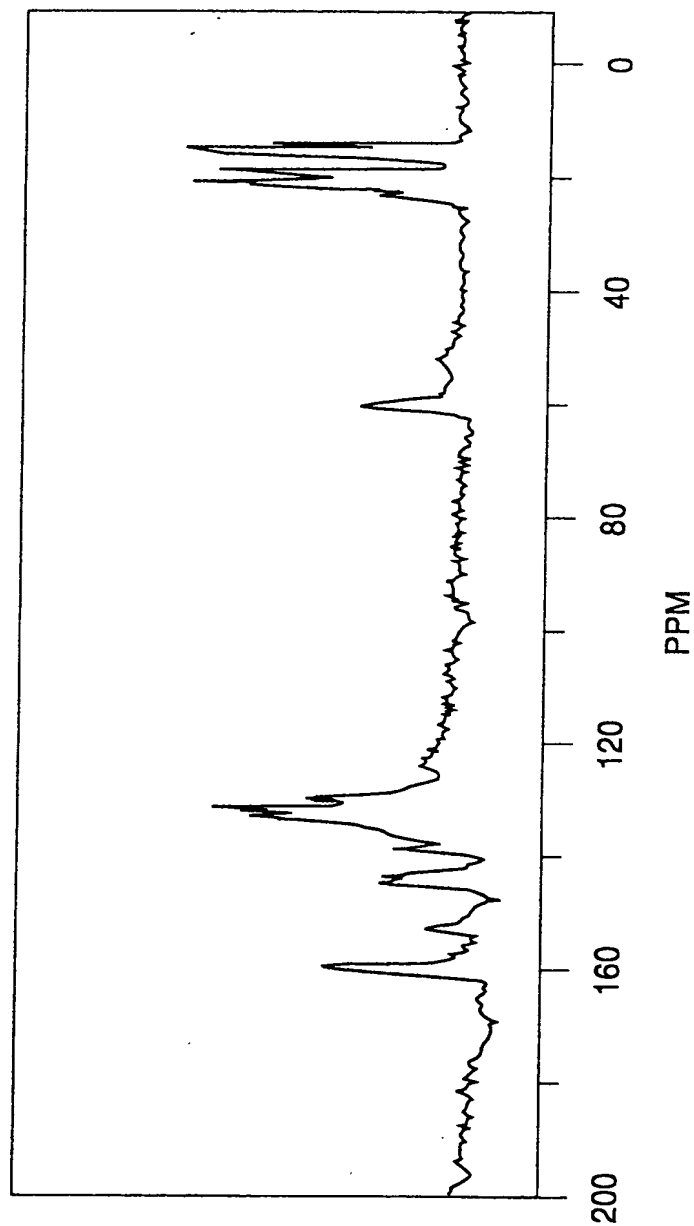
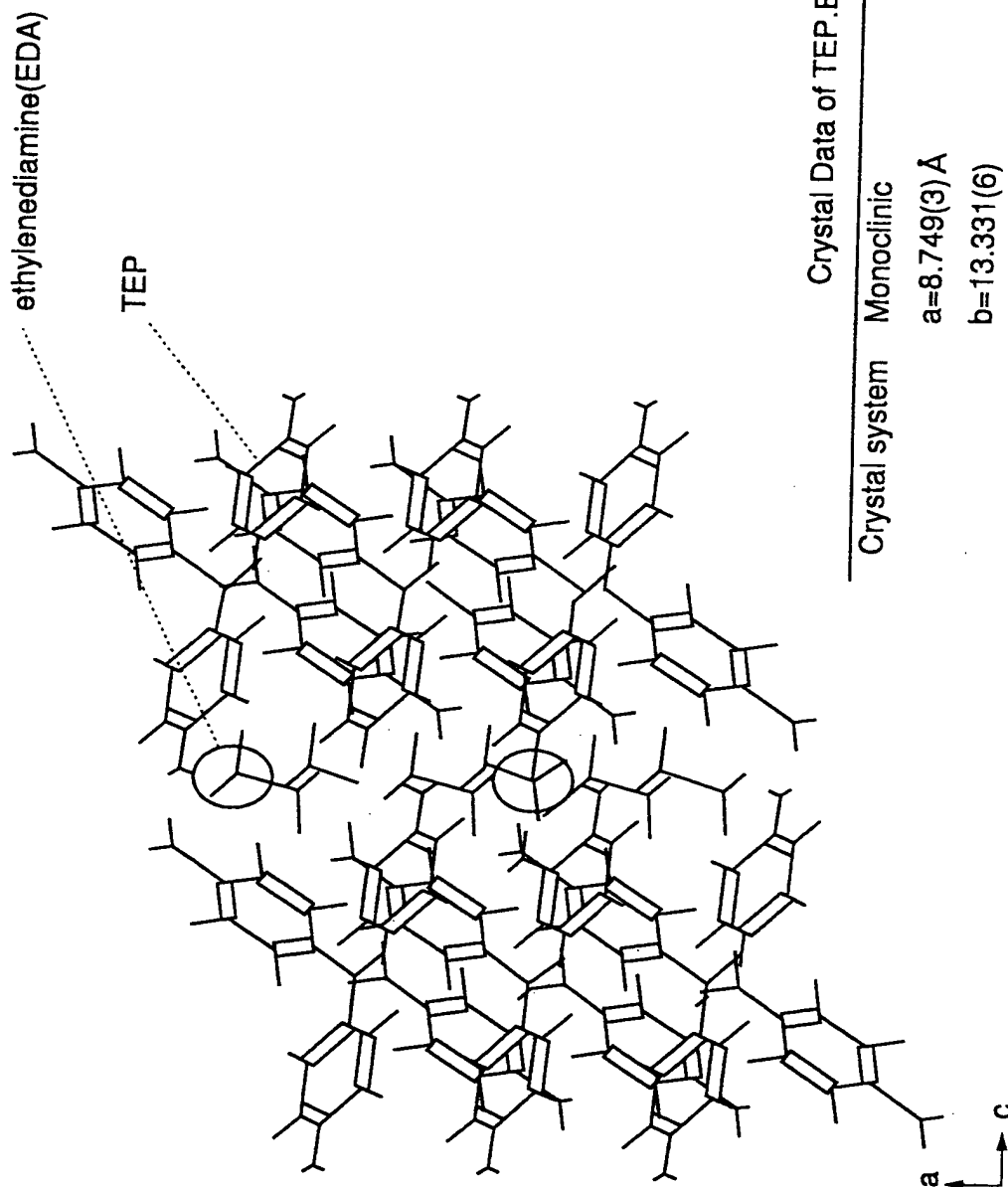


Figure 37



## Crystal Data of TEP·EDA (1:1)

Crystal system	Monoclinic	$V=1218.0(2)\text{\AA}^3$
	$a=8.749(3)\text{\AA}$	Space Group $P2_1/c$
	$b=13.331(6)$	$z=2$
	$c=10.989(9)$	$D_x=1250\text{g/cm}^3$
	$\beta=108.17(0)\text{degrees}$	$R=0.038$

Figure 38

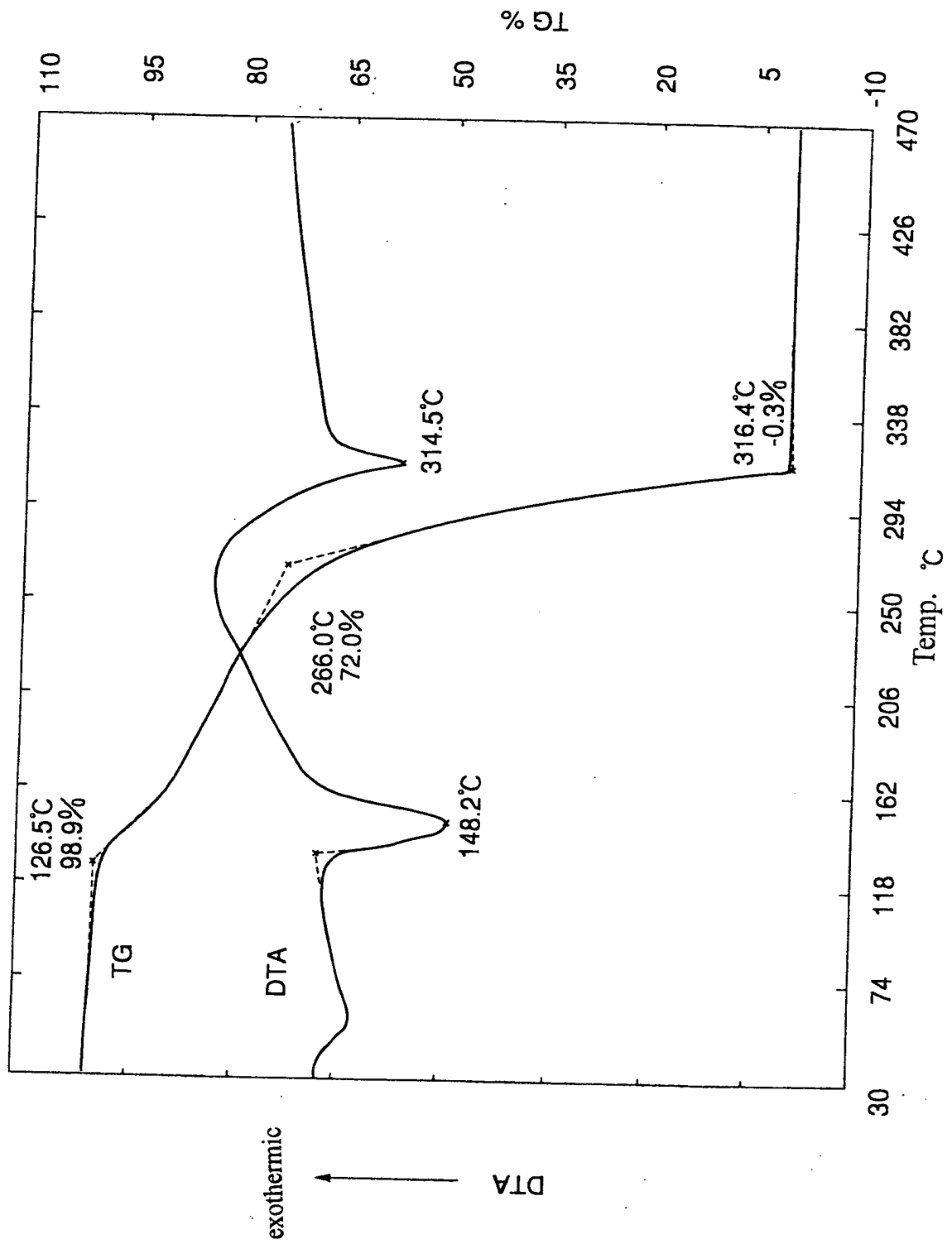


Figure 39

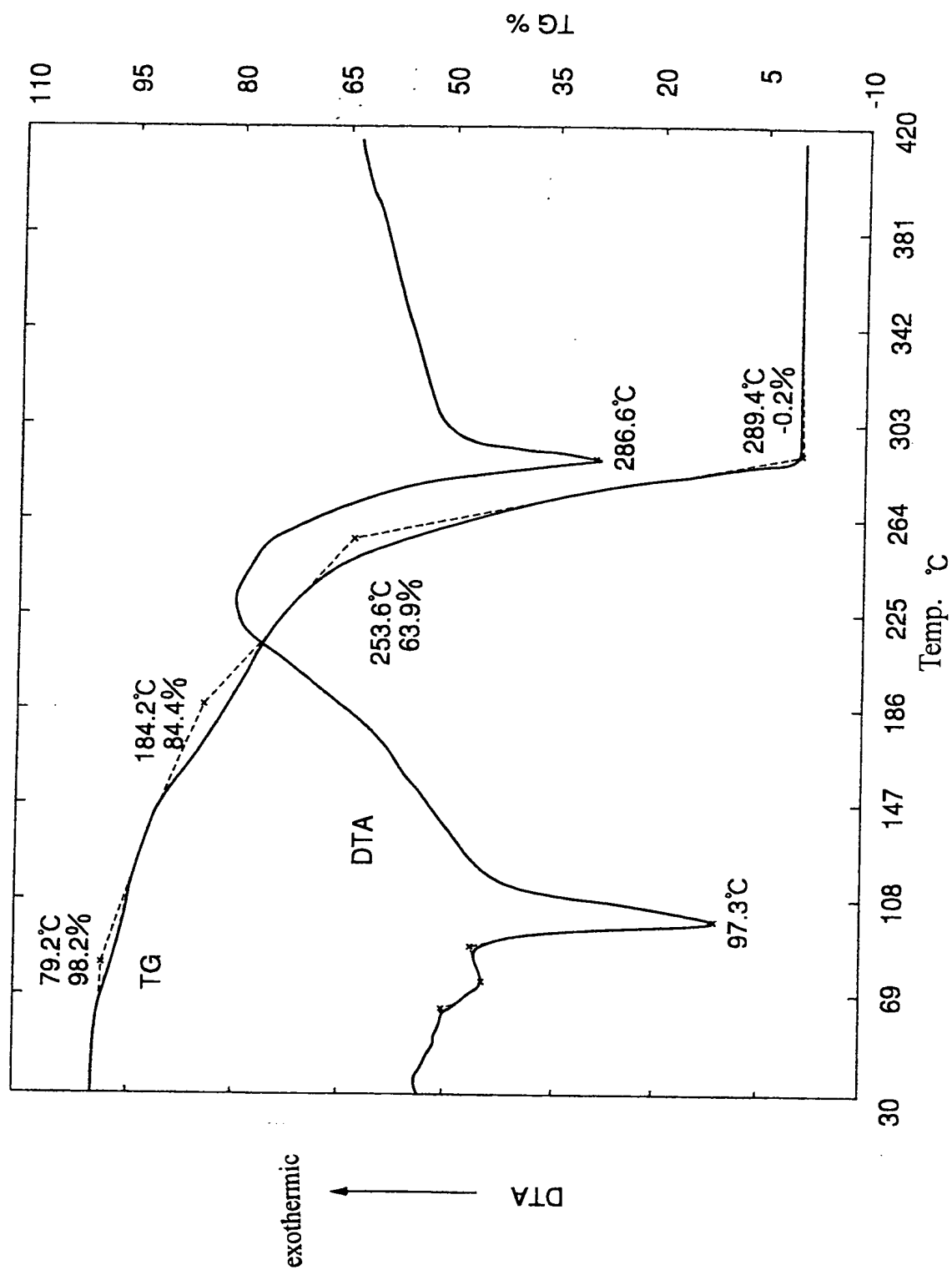


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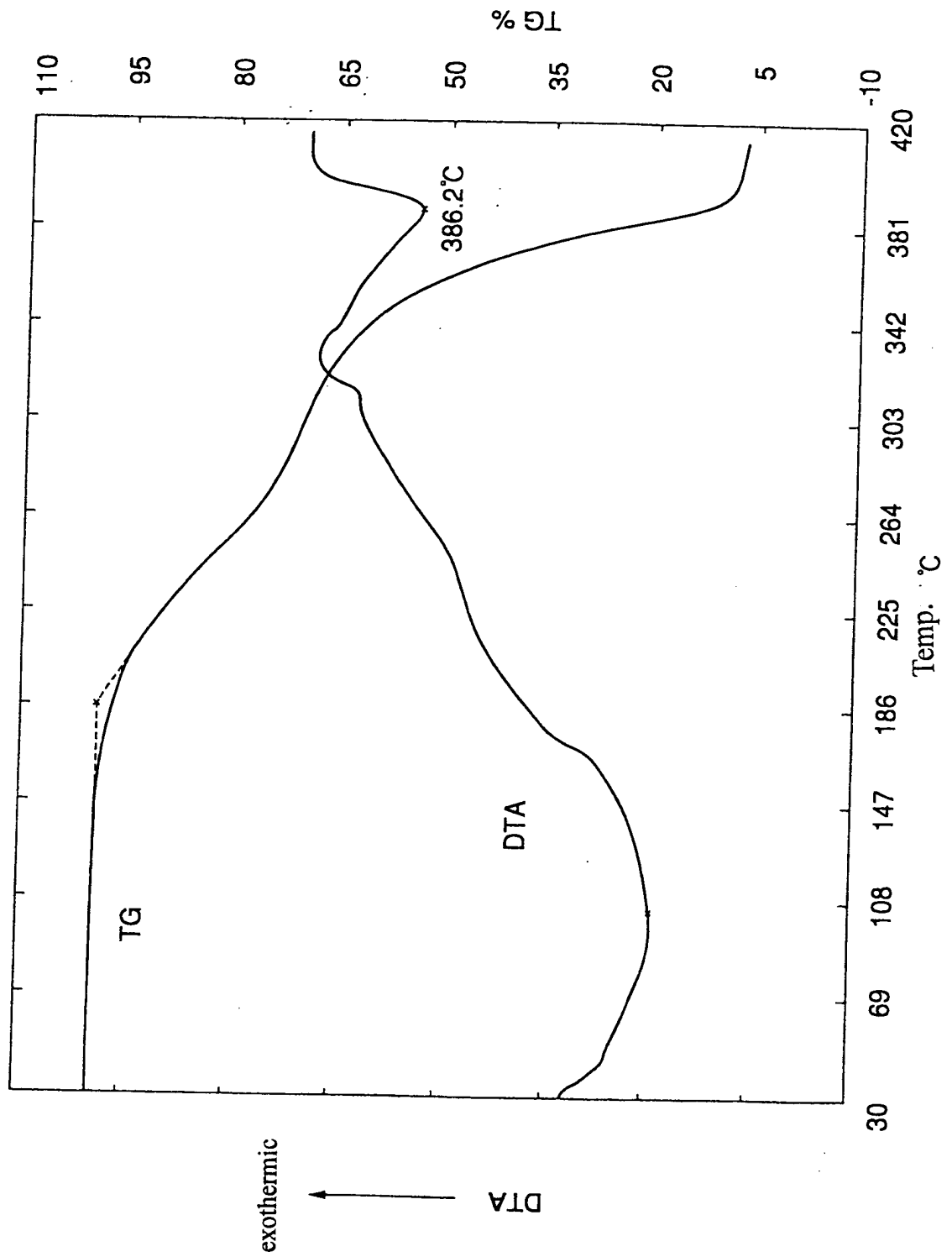




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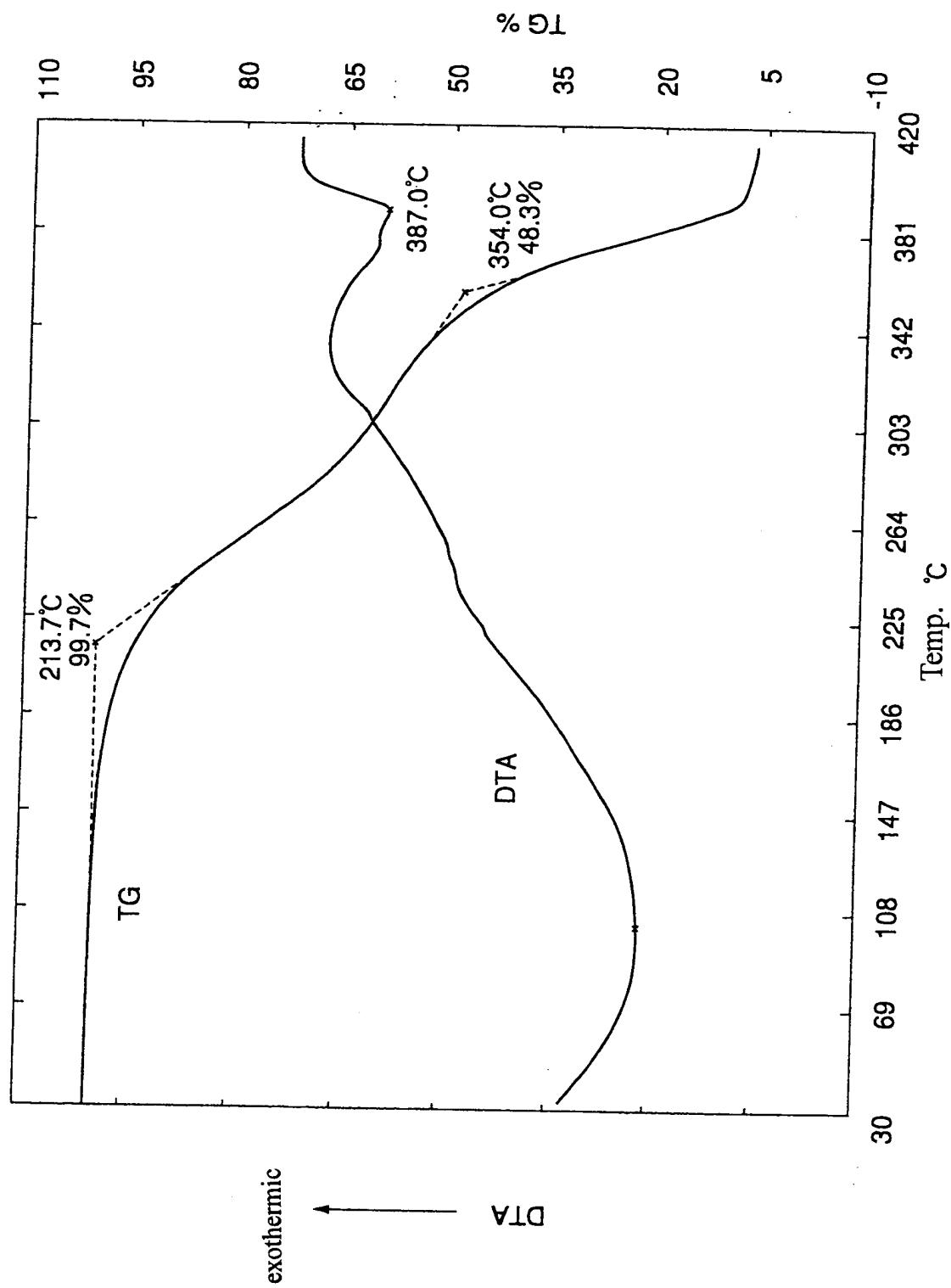


Figure 42

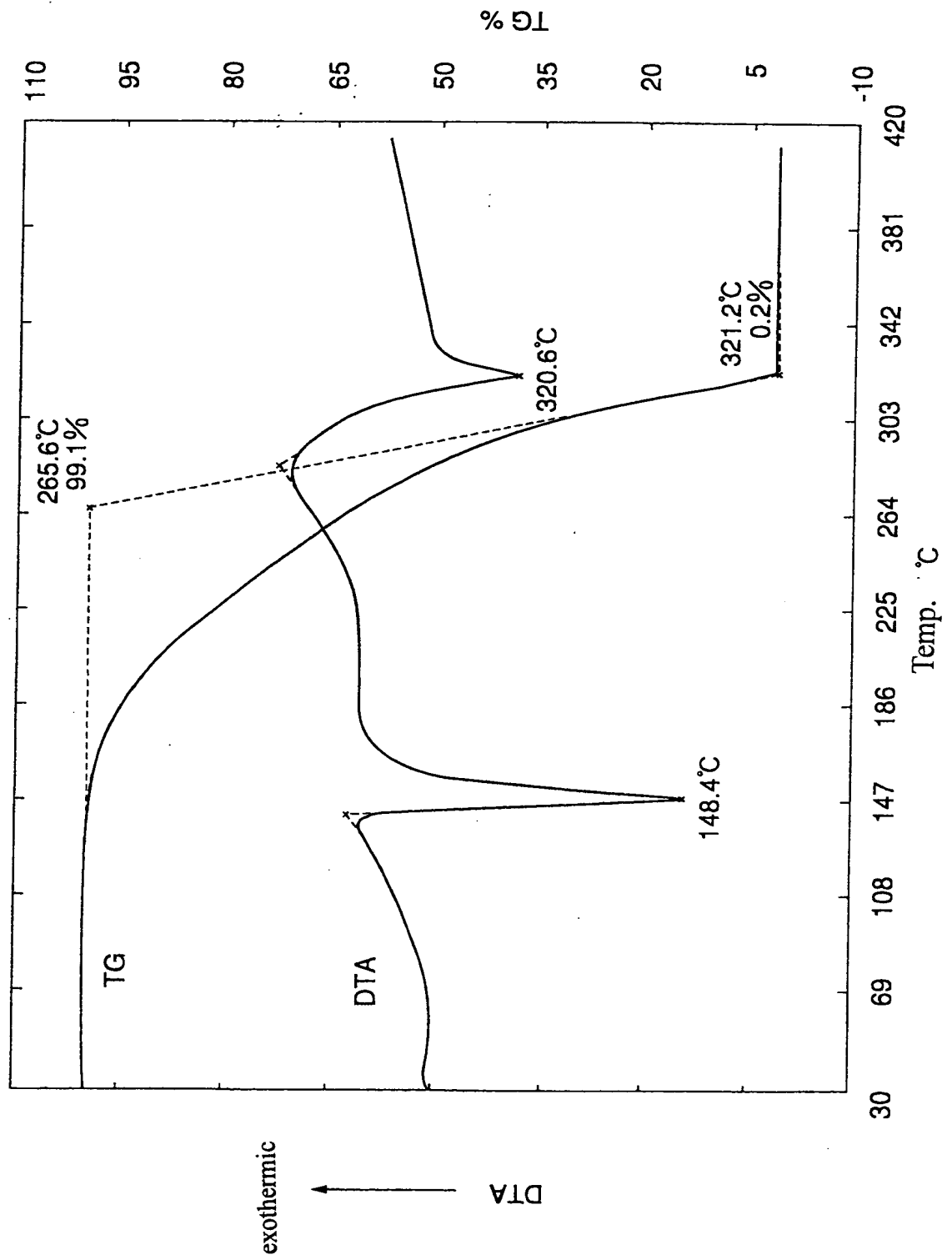


Figure 43

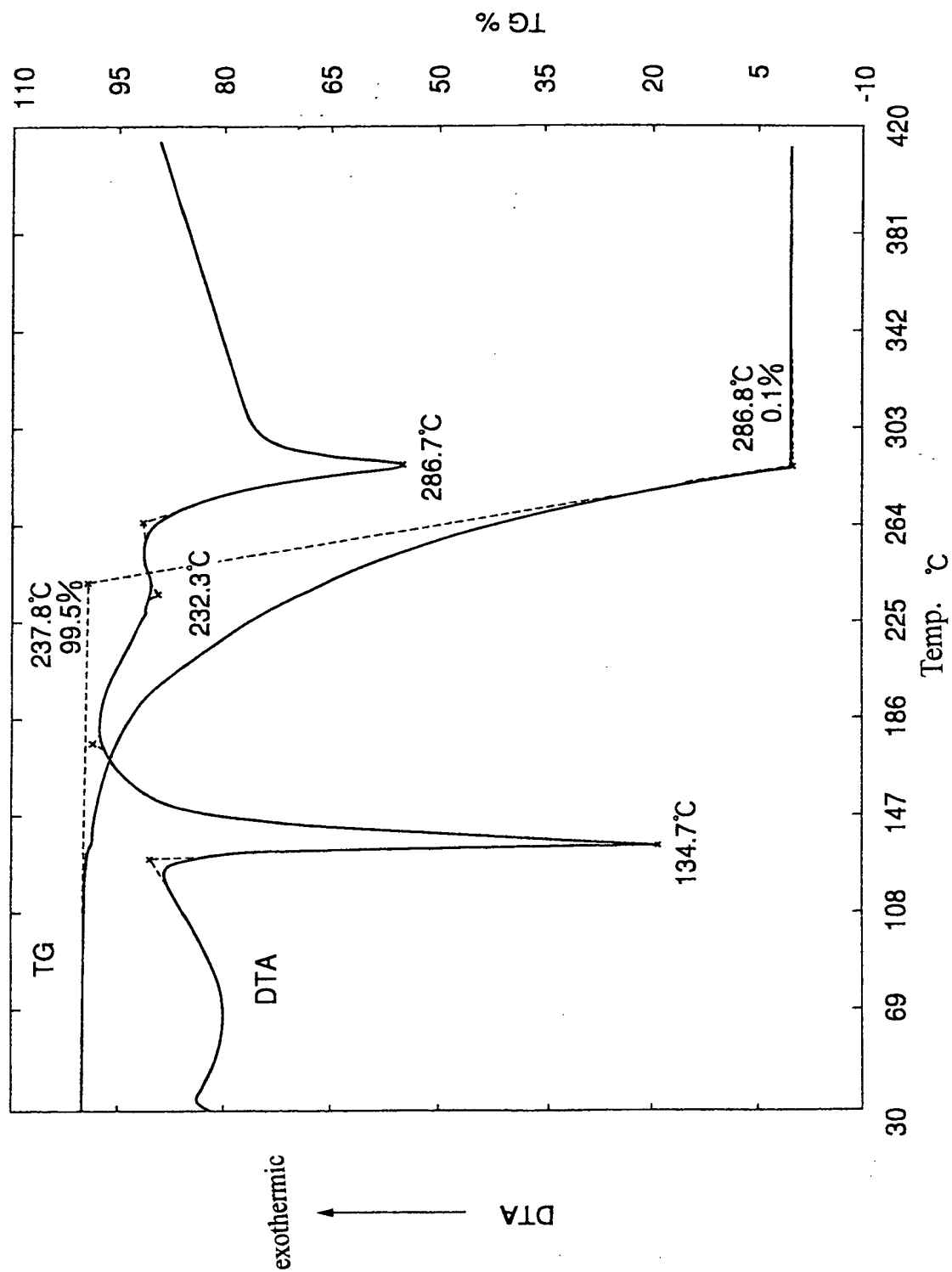


Figure 44

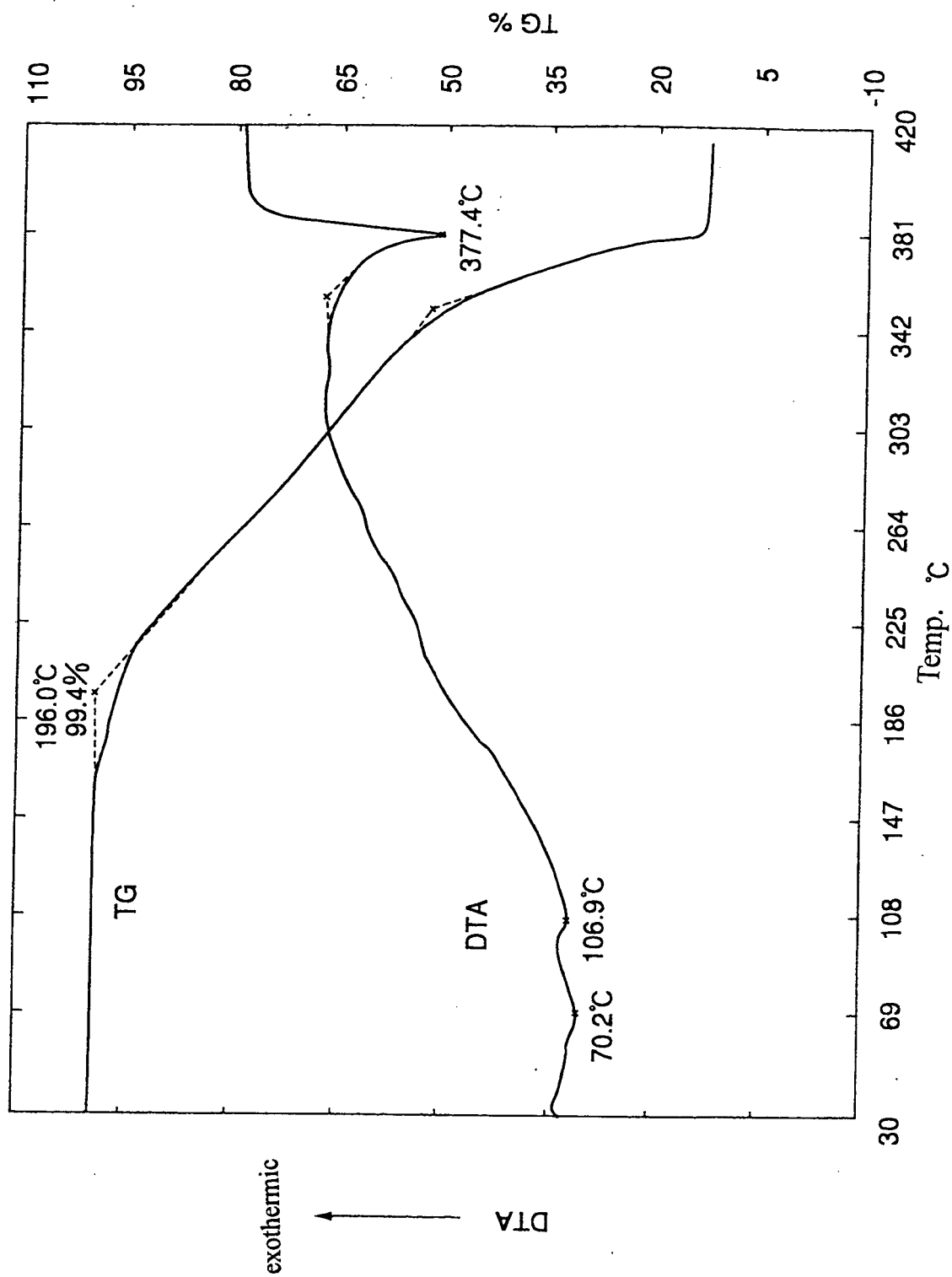




Figure 46

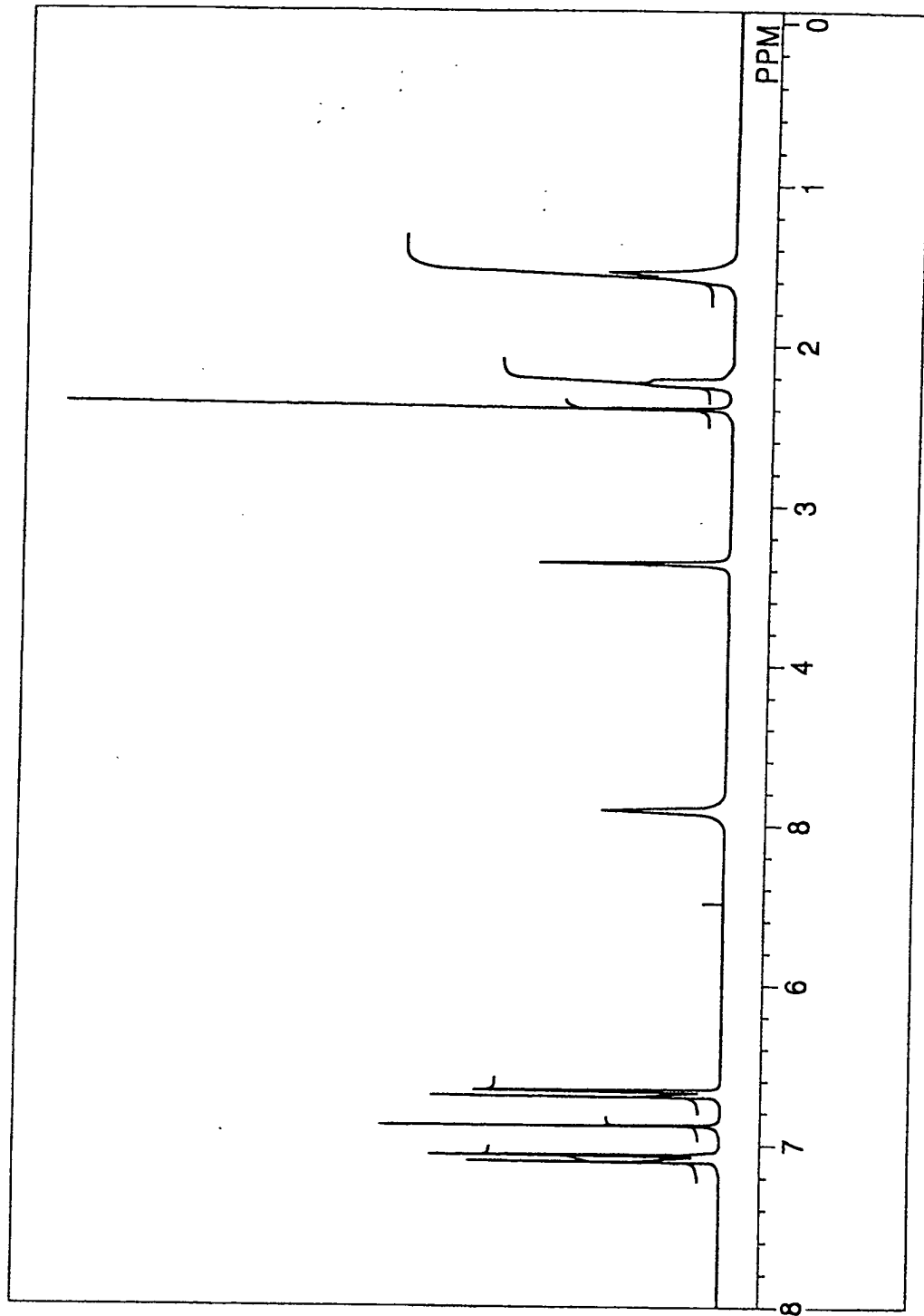


Figure 47

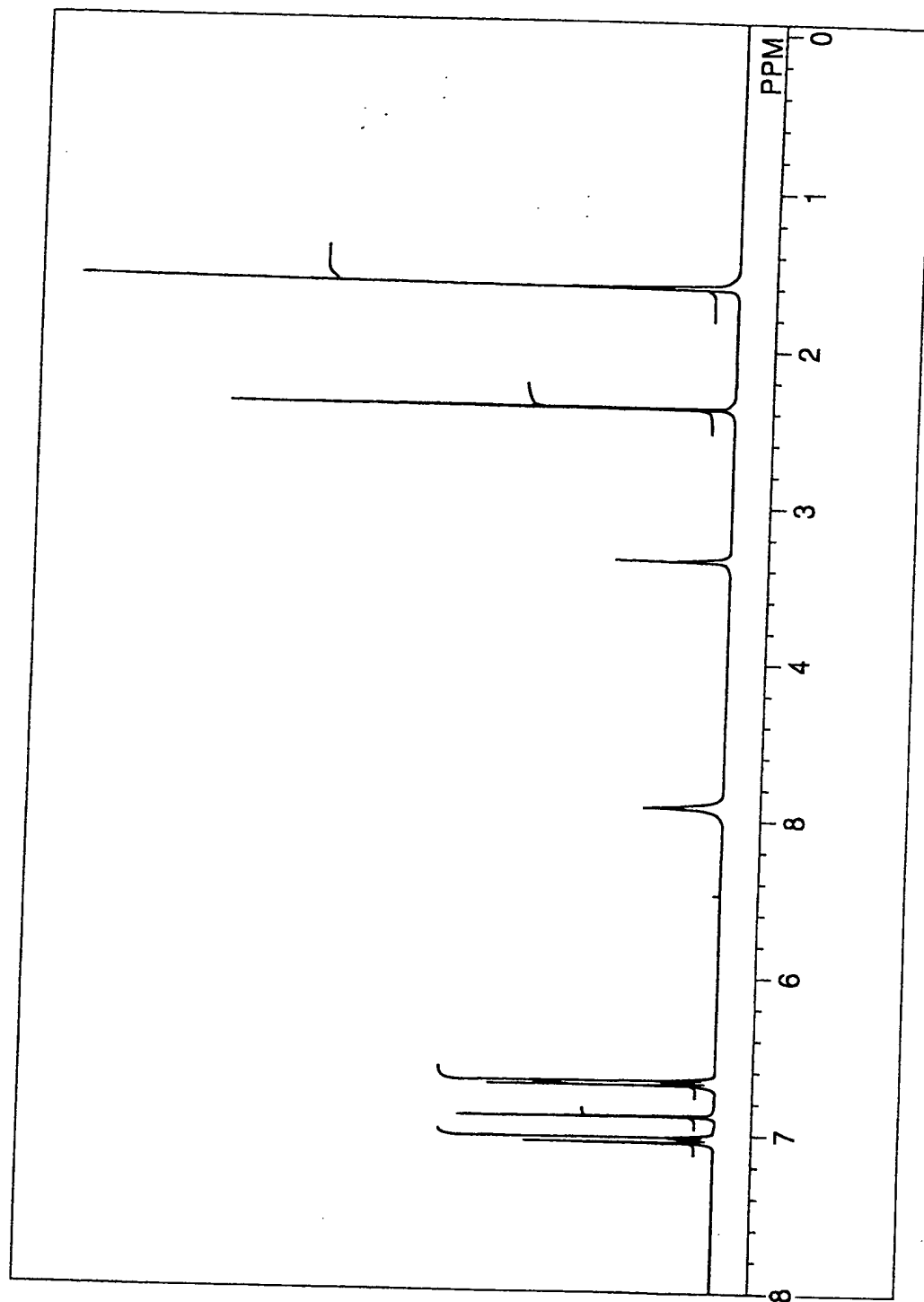


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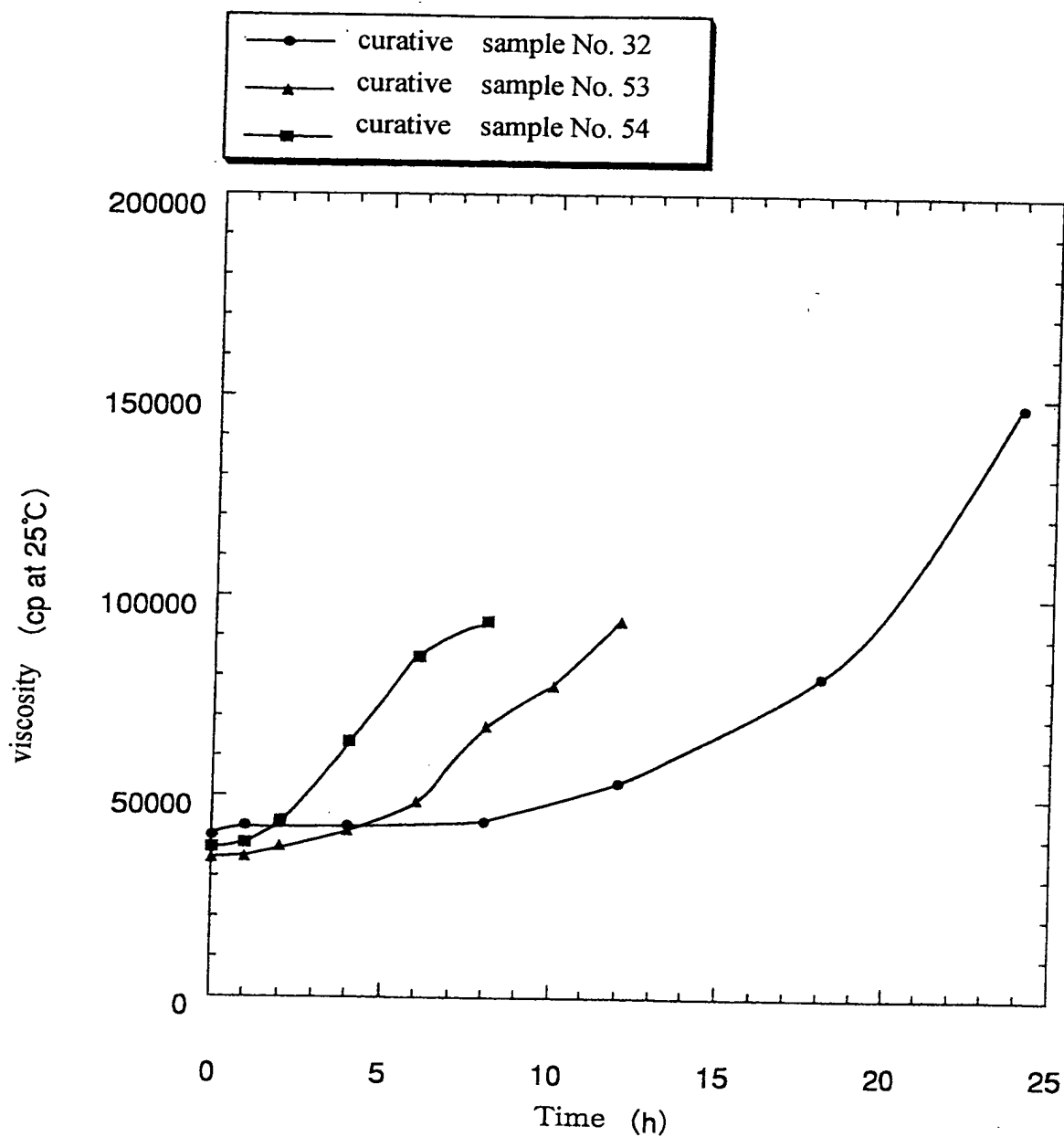




Figure 49

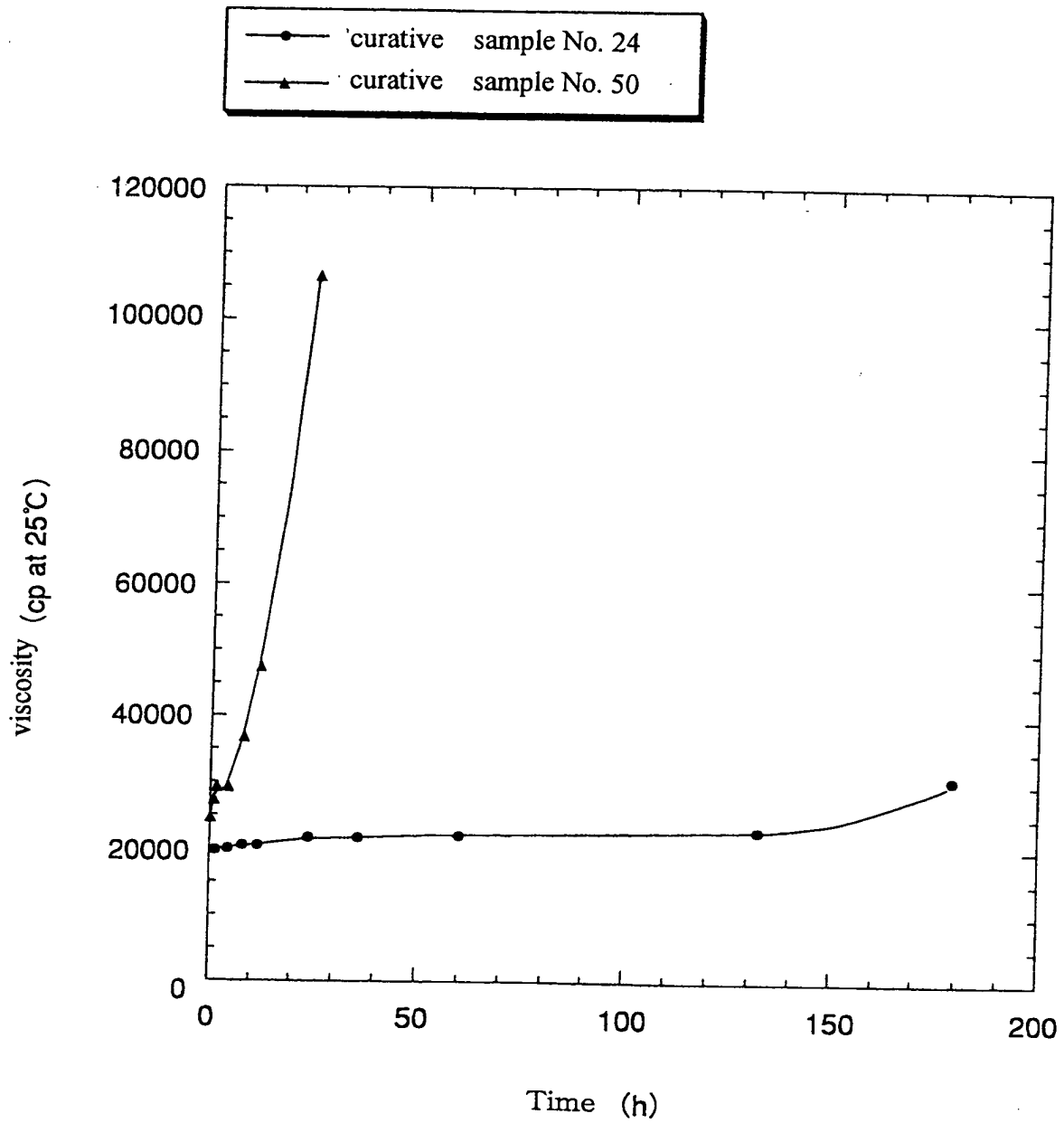


Figure 50

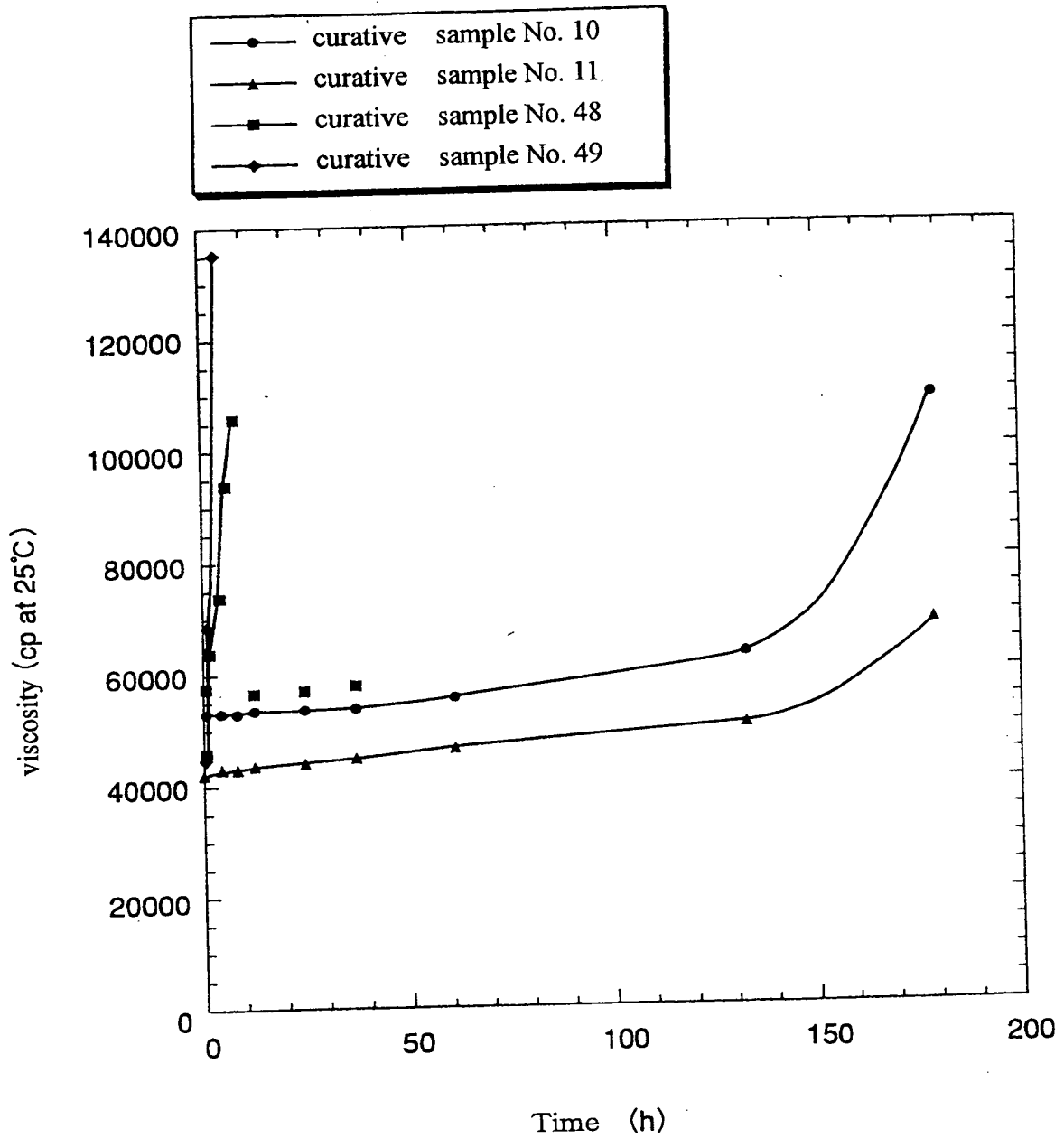


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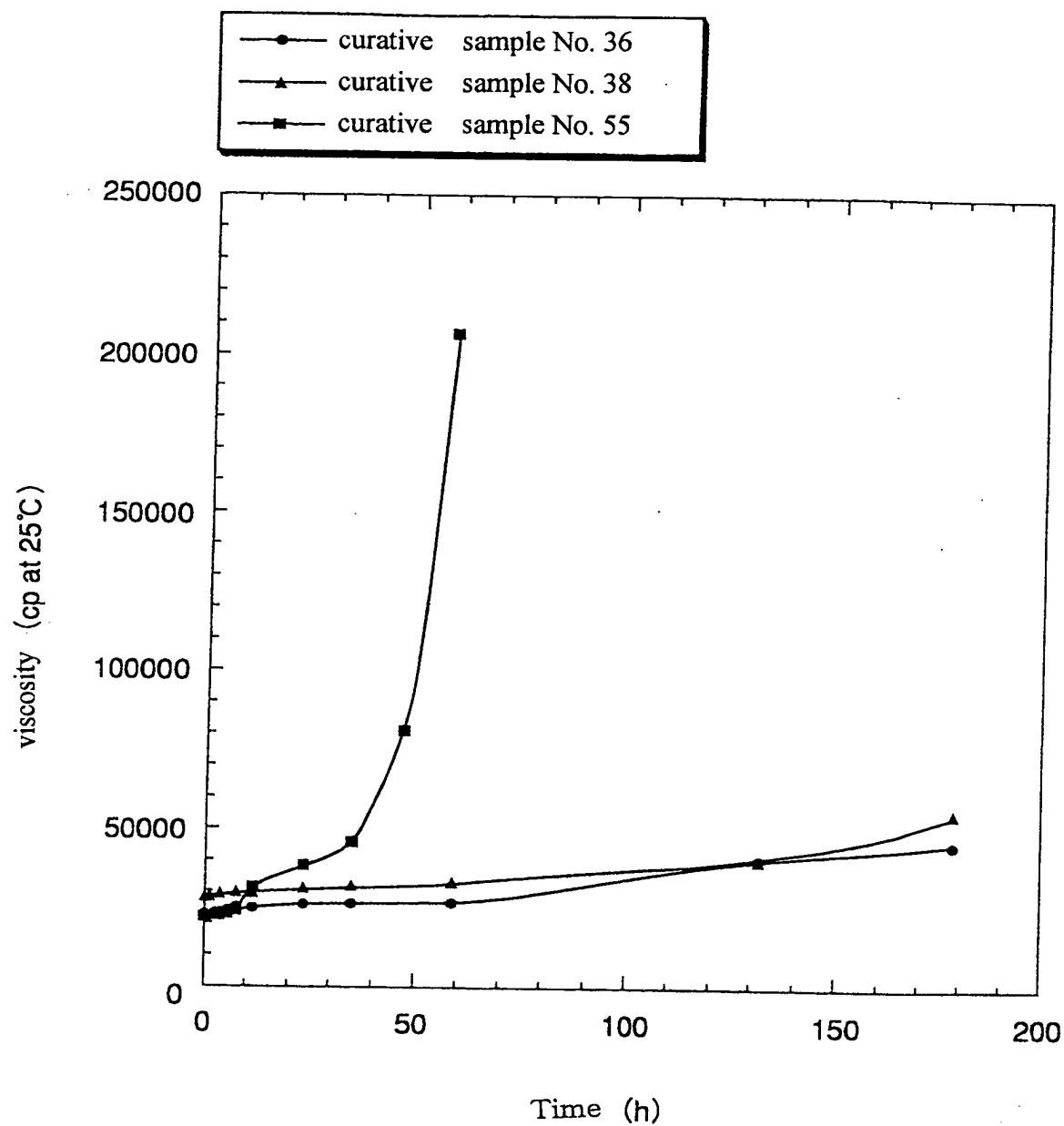


Figure 52

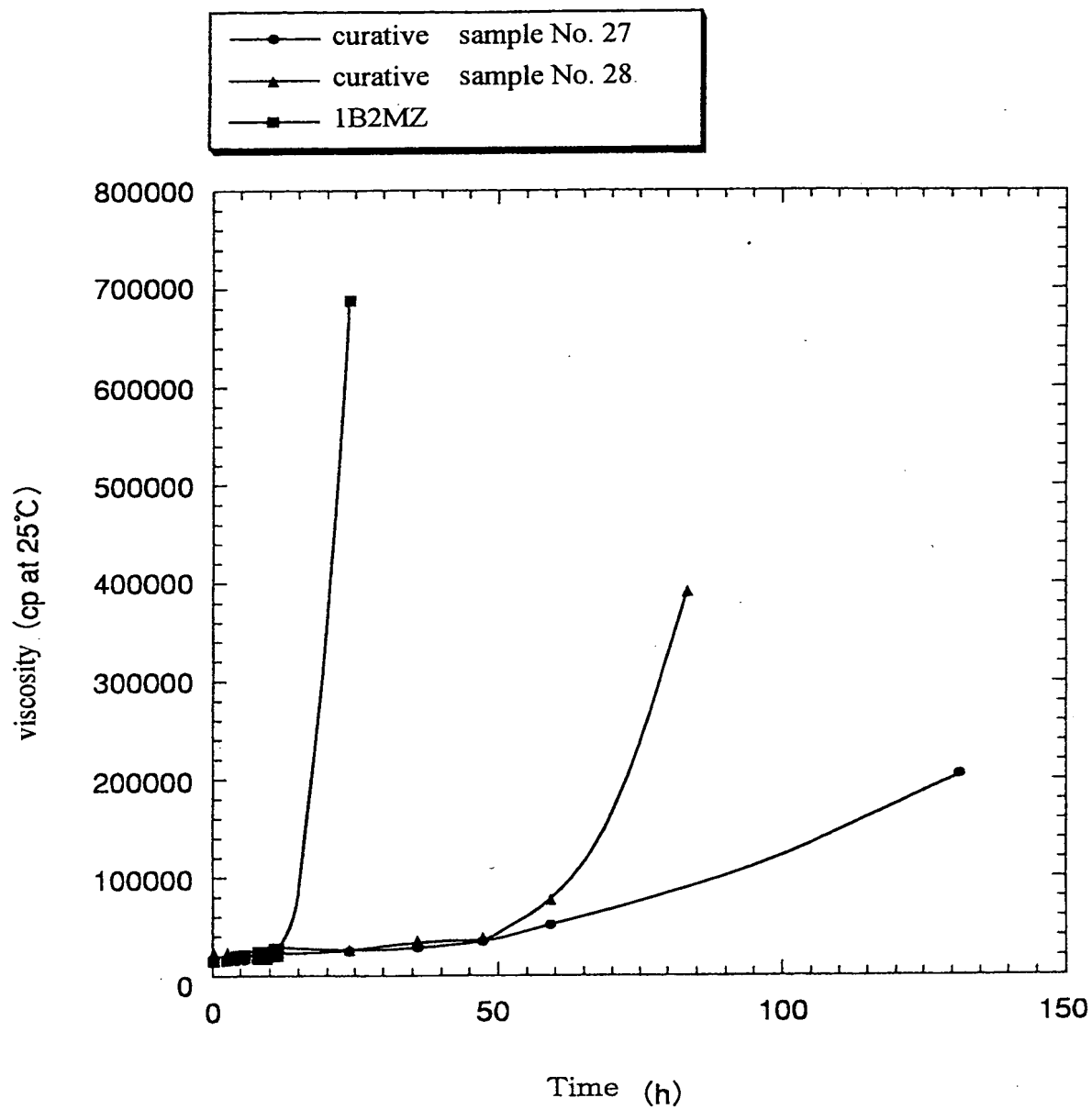


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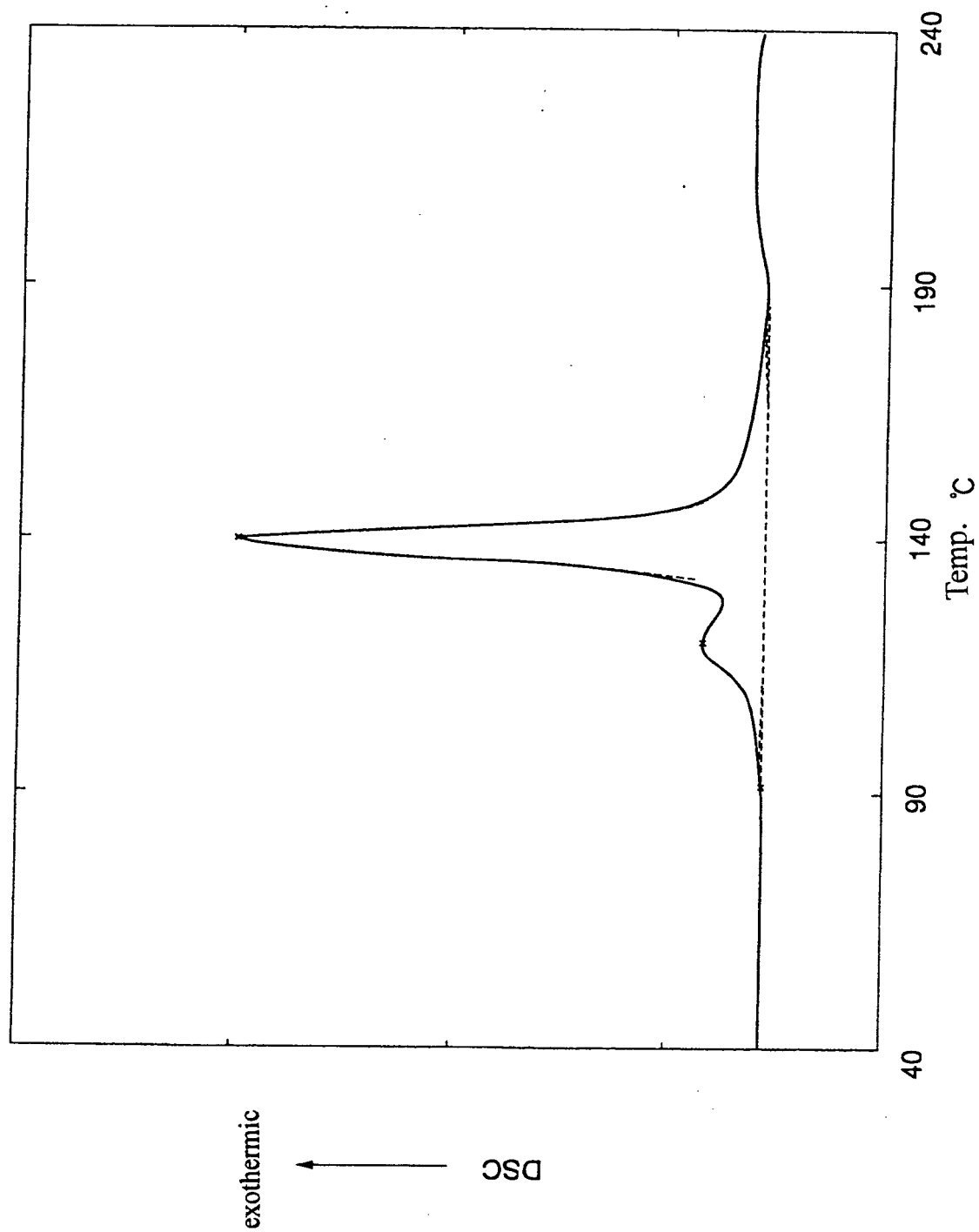


Figure 54

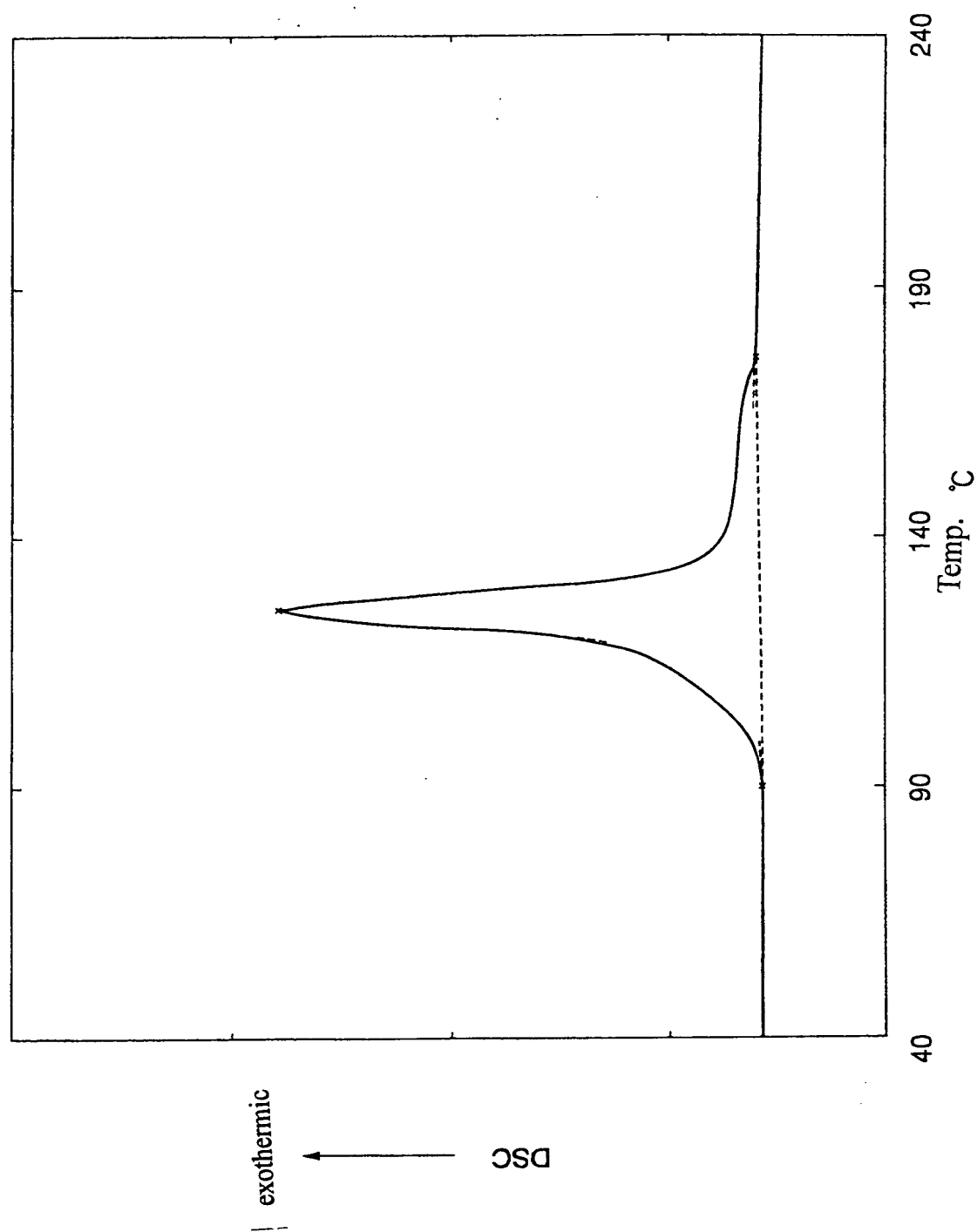


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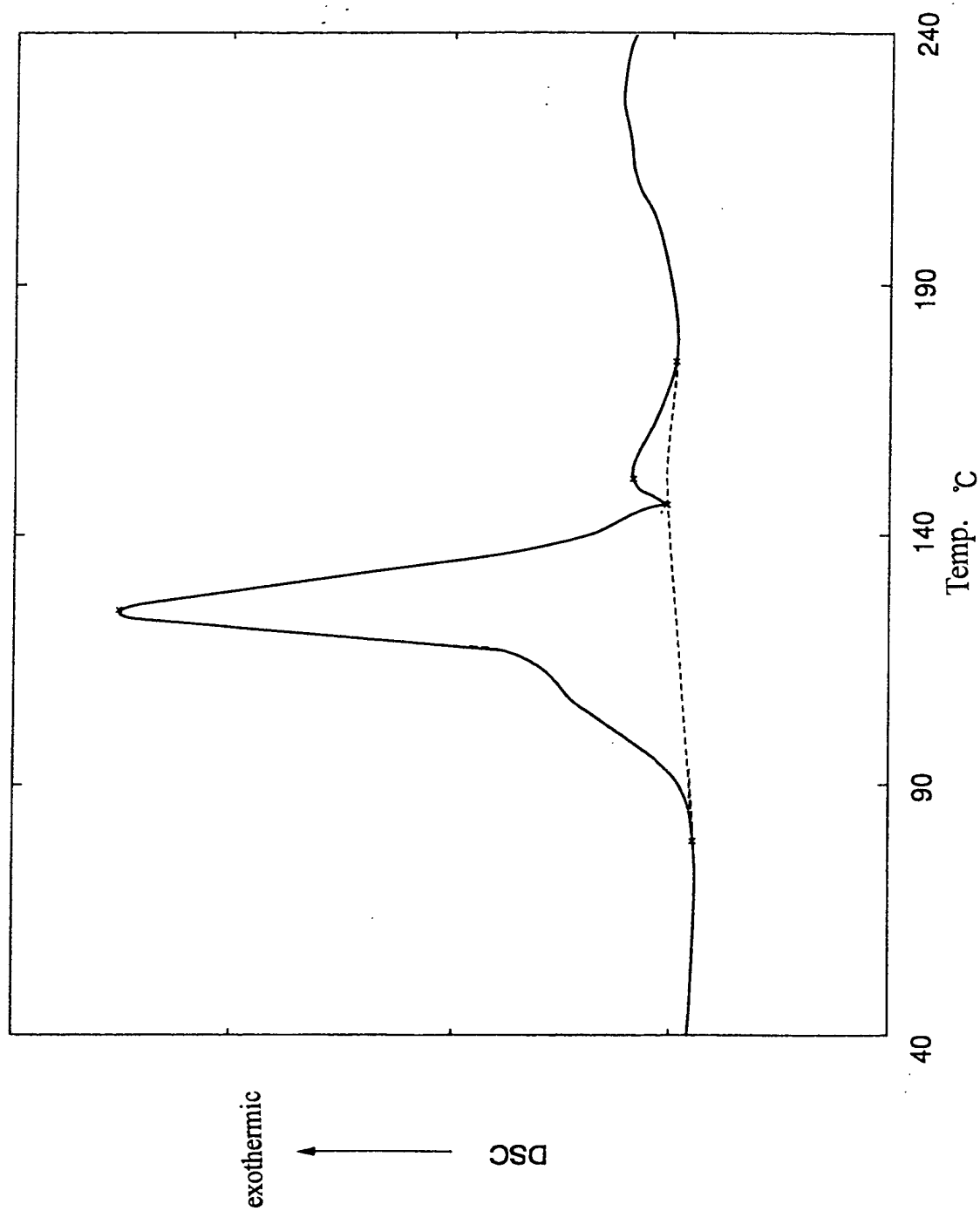


Figure 56

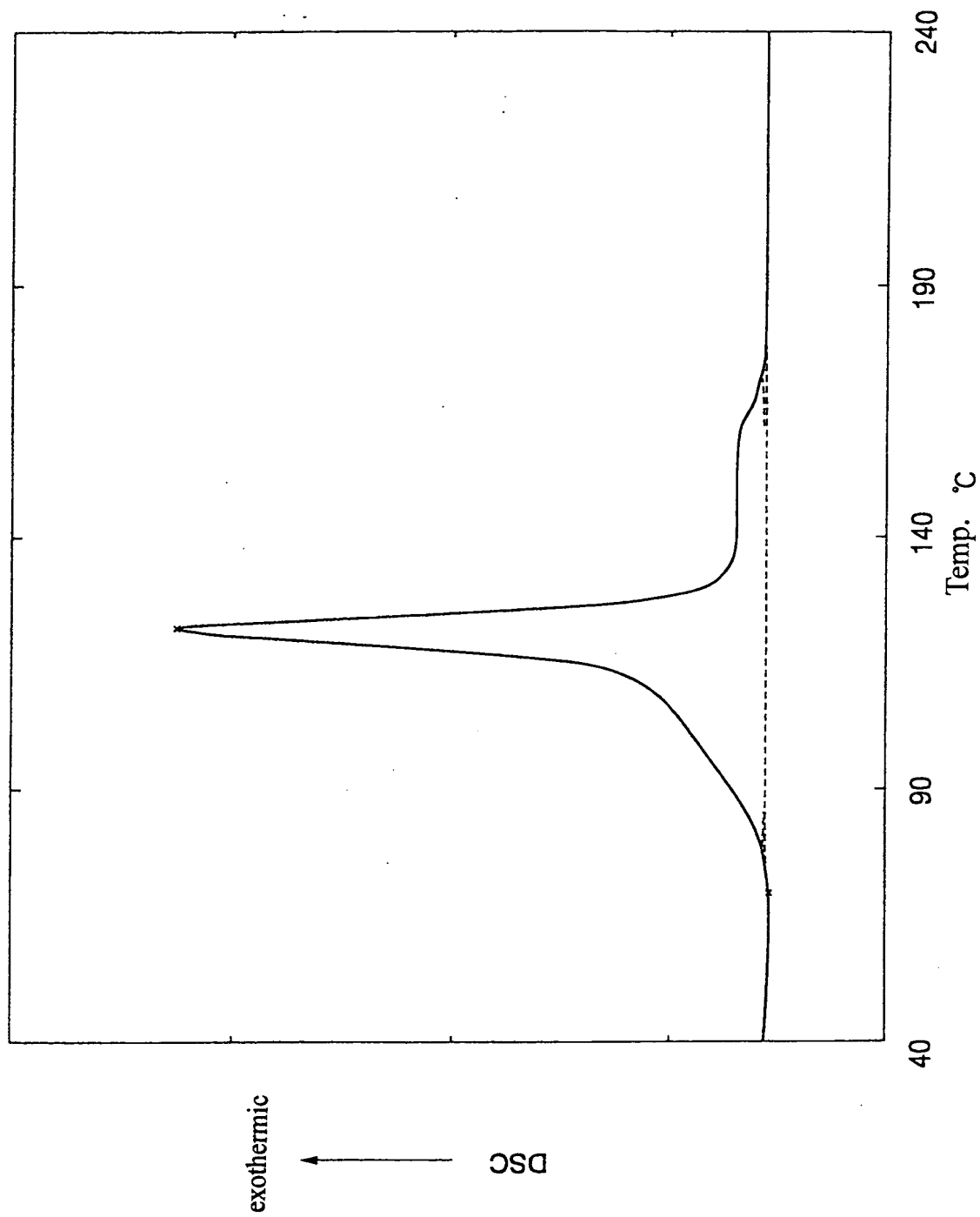




Figure 57

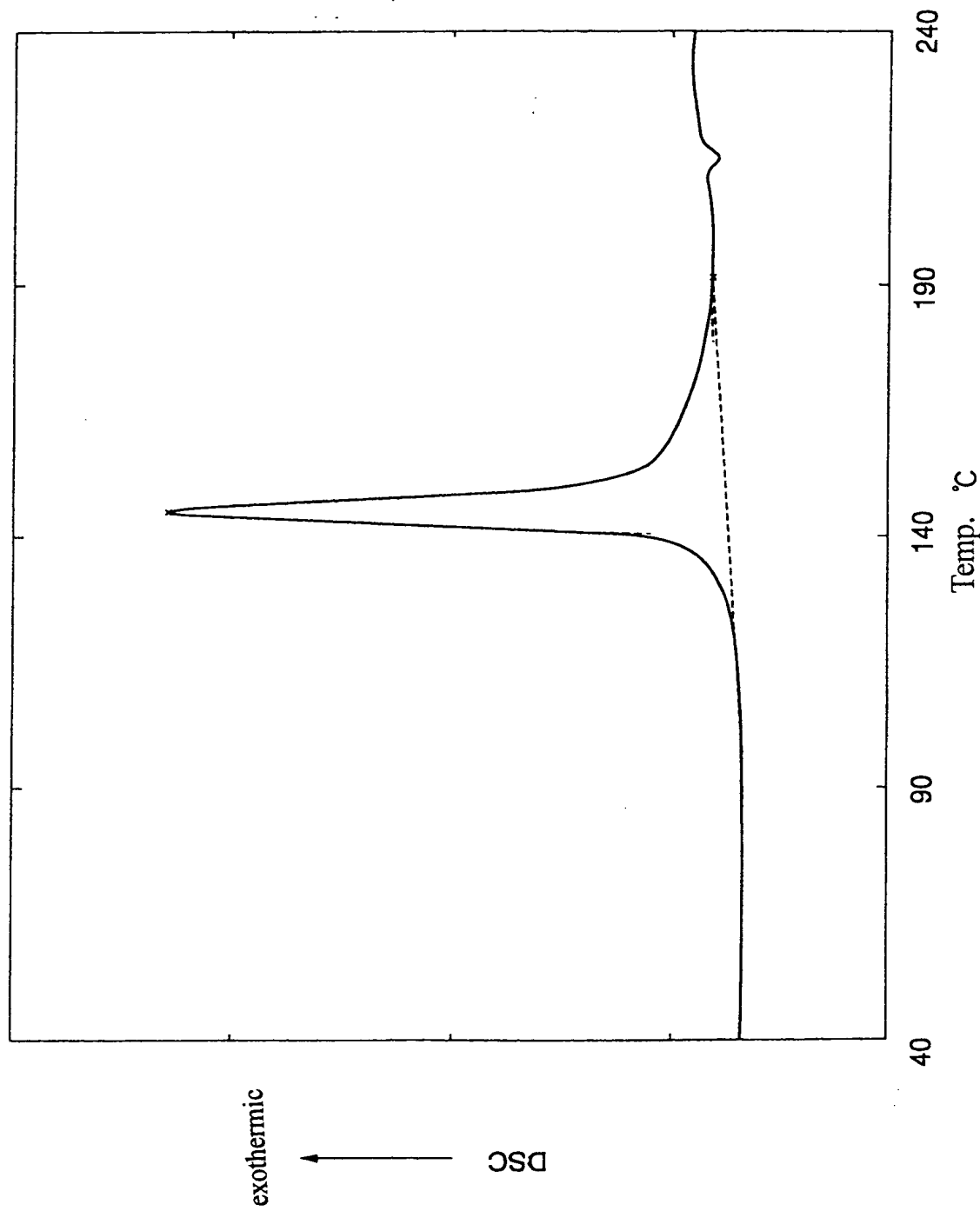
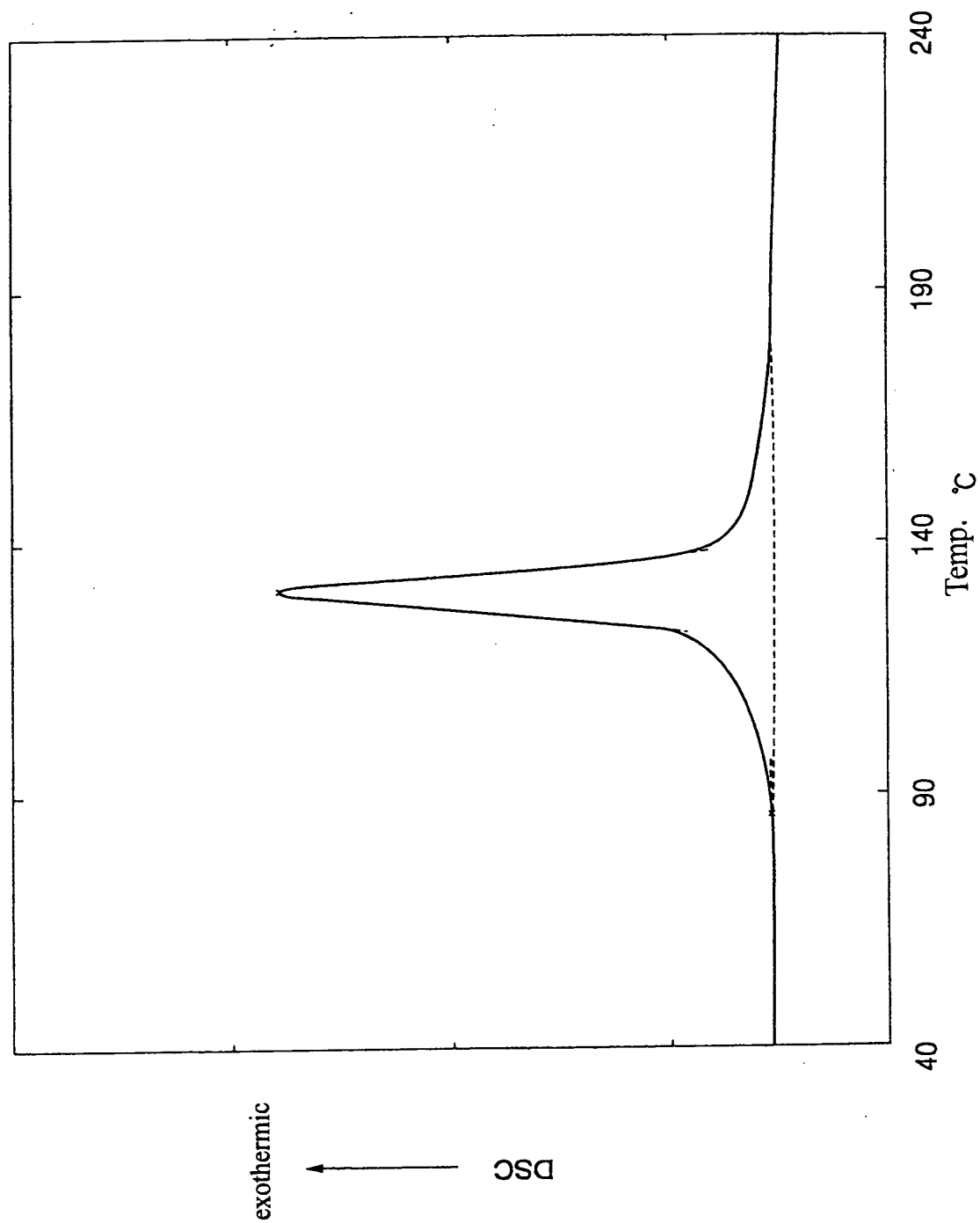


Figure 58



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Figure 59

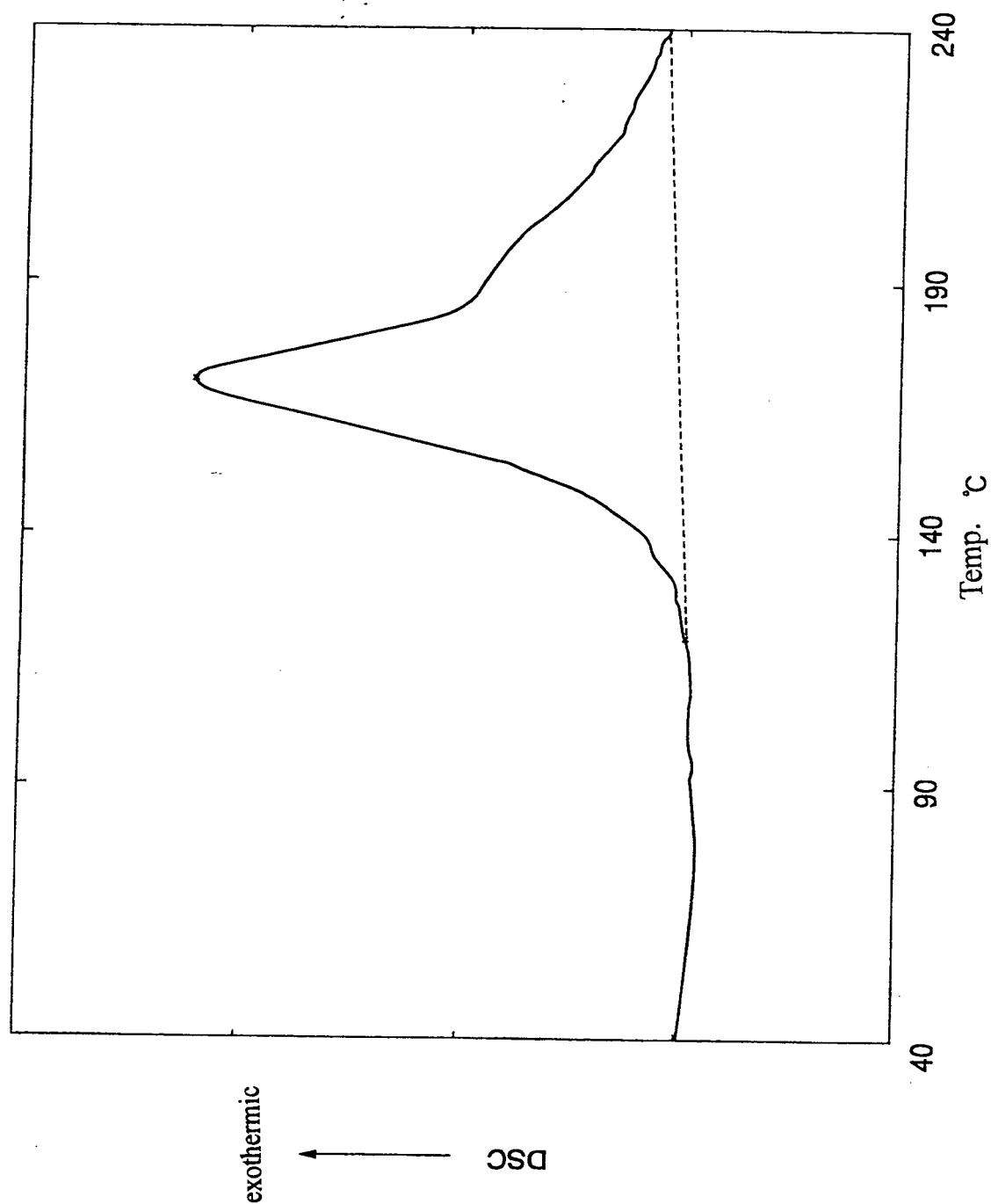


Figure 60

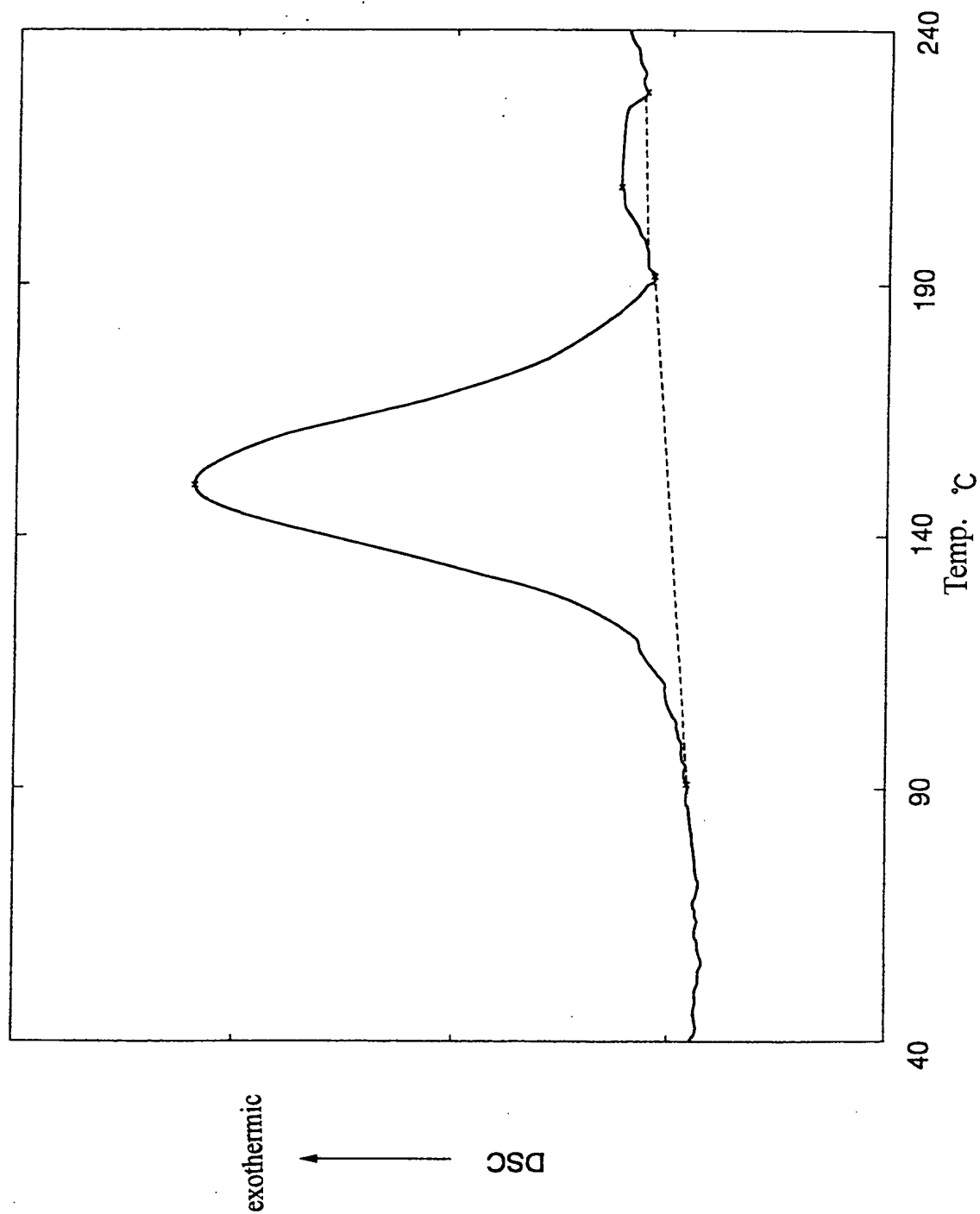


Figure 61

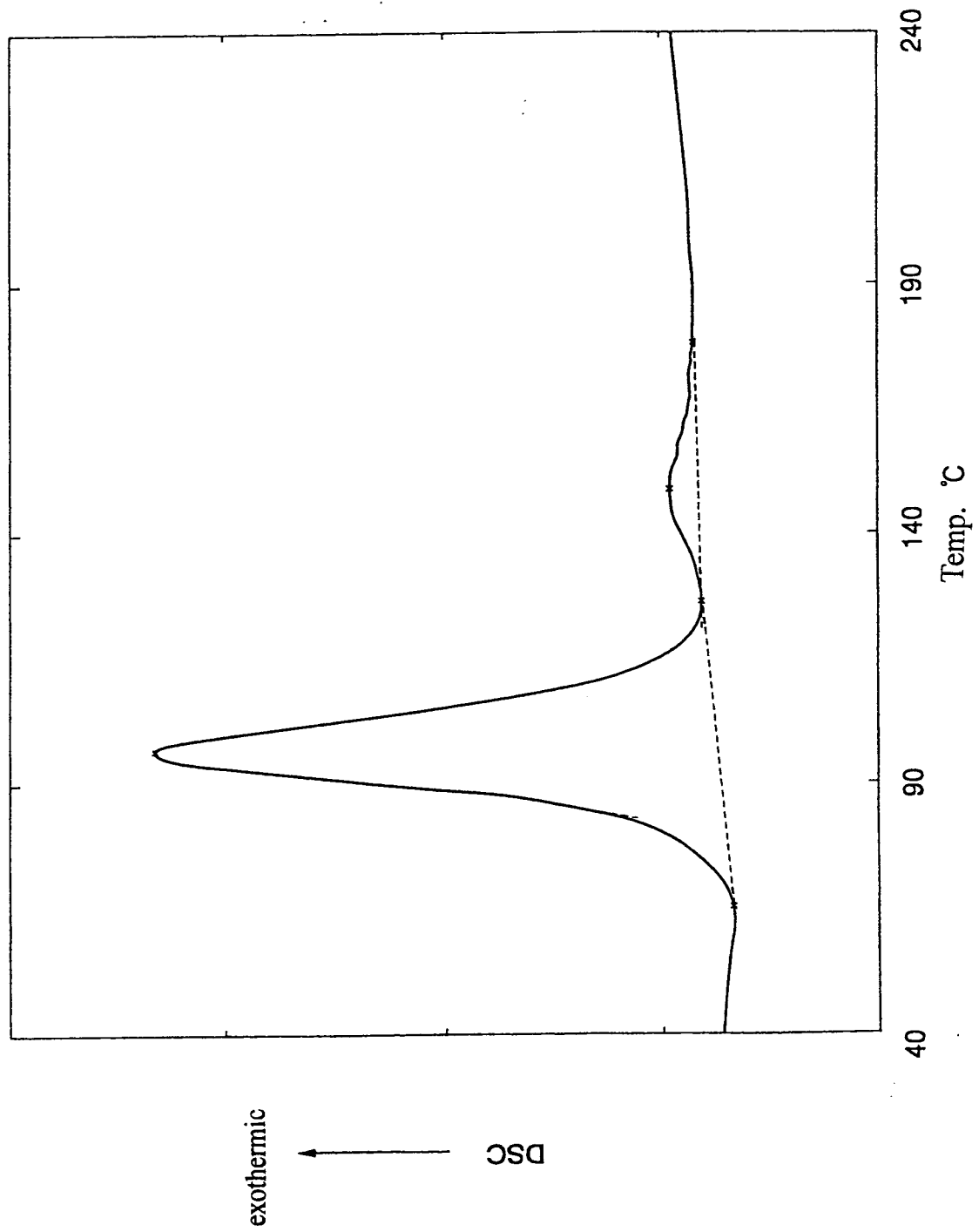


Figure 62

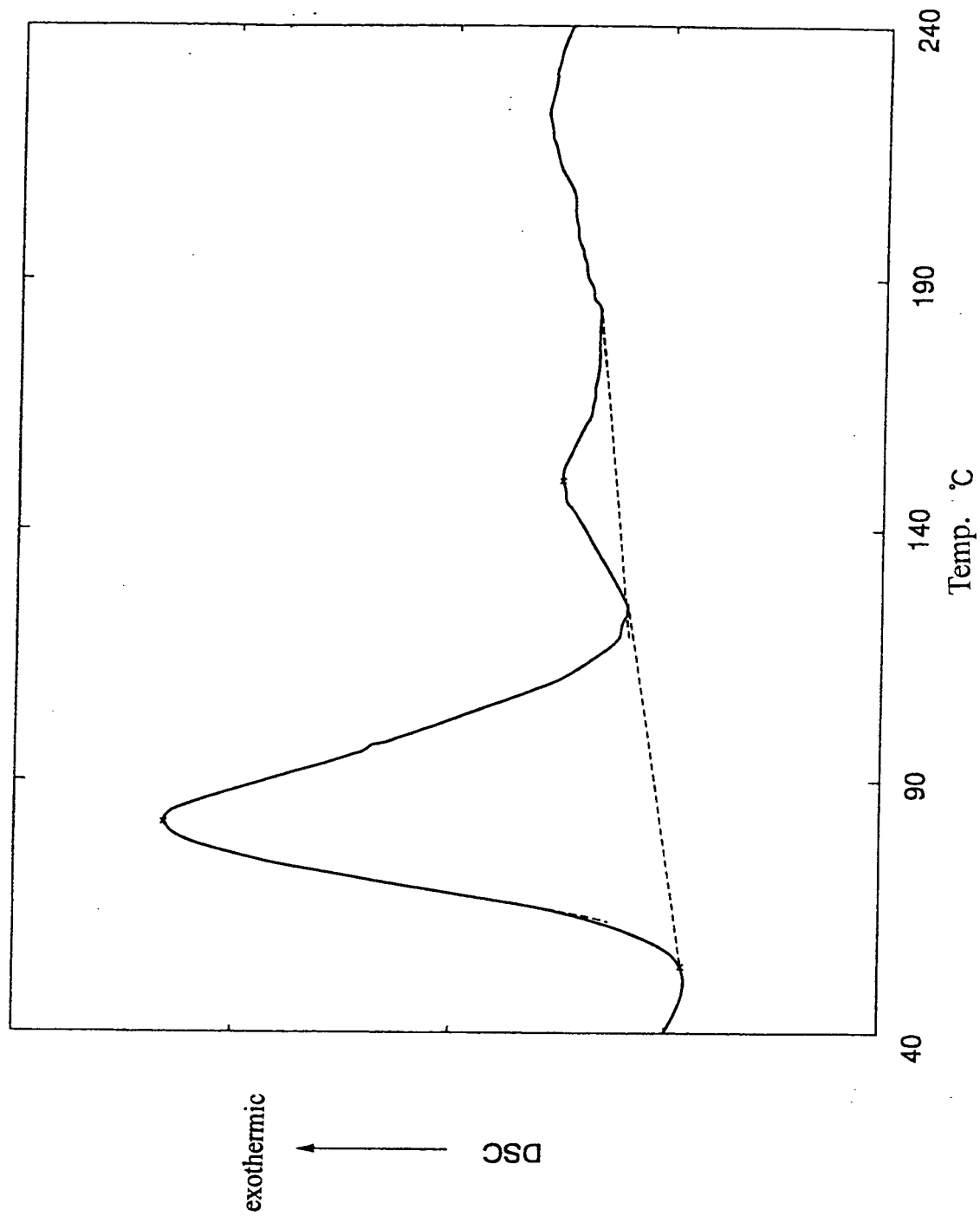


Figure 63

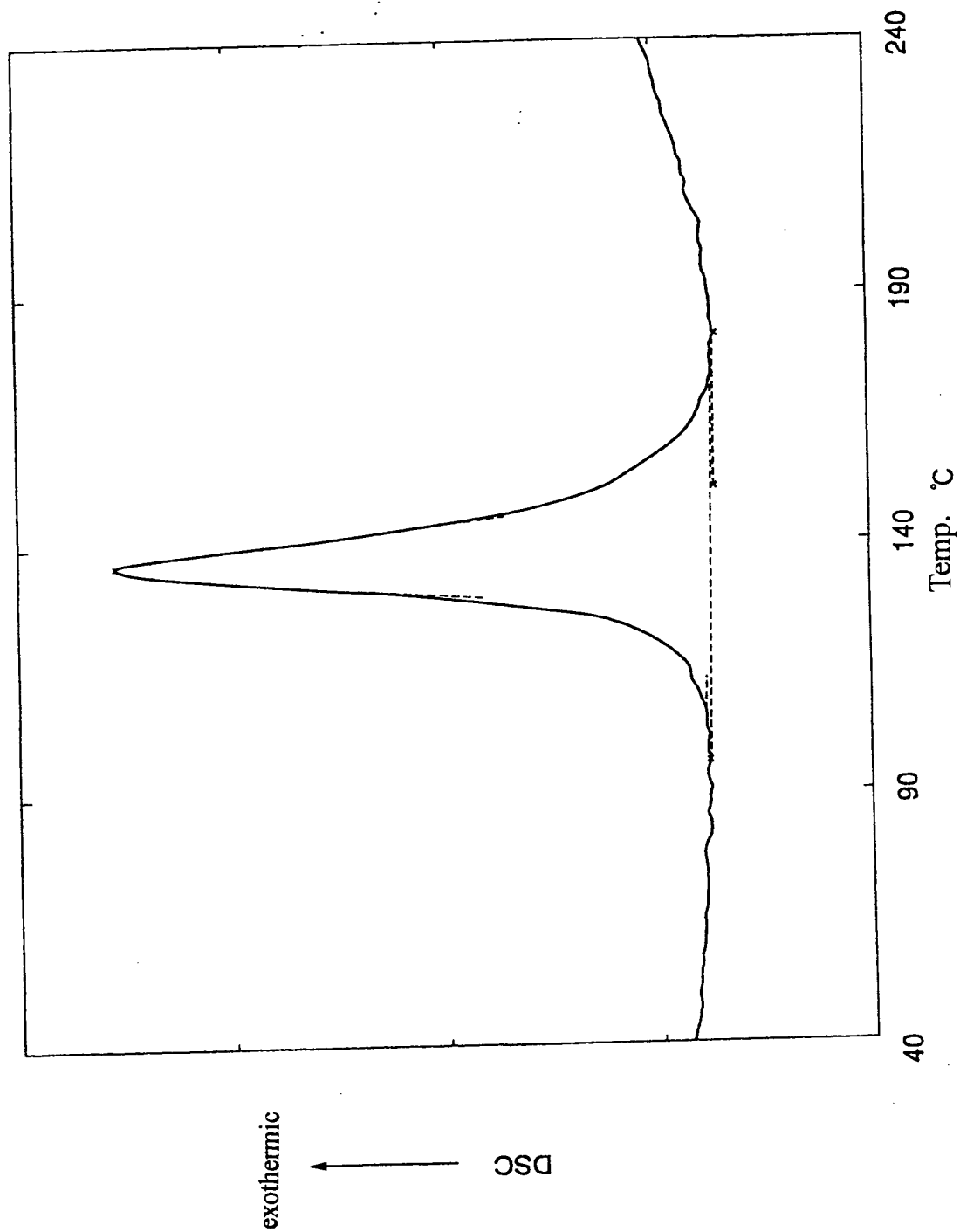


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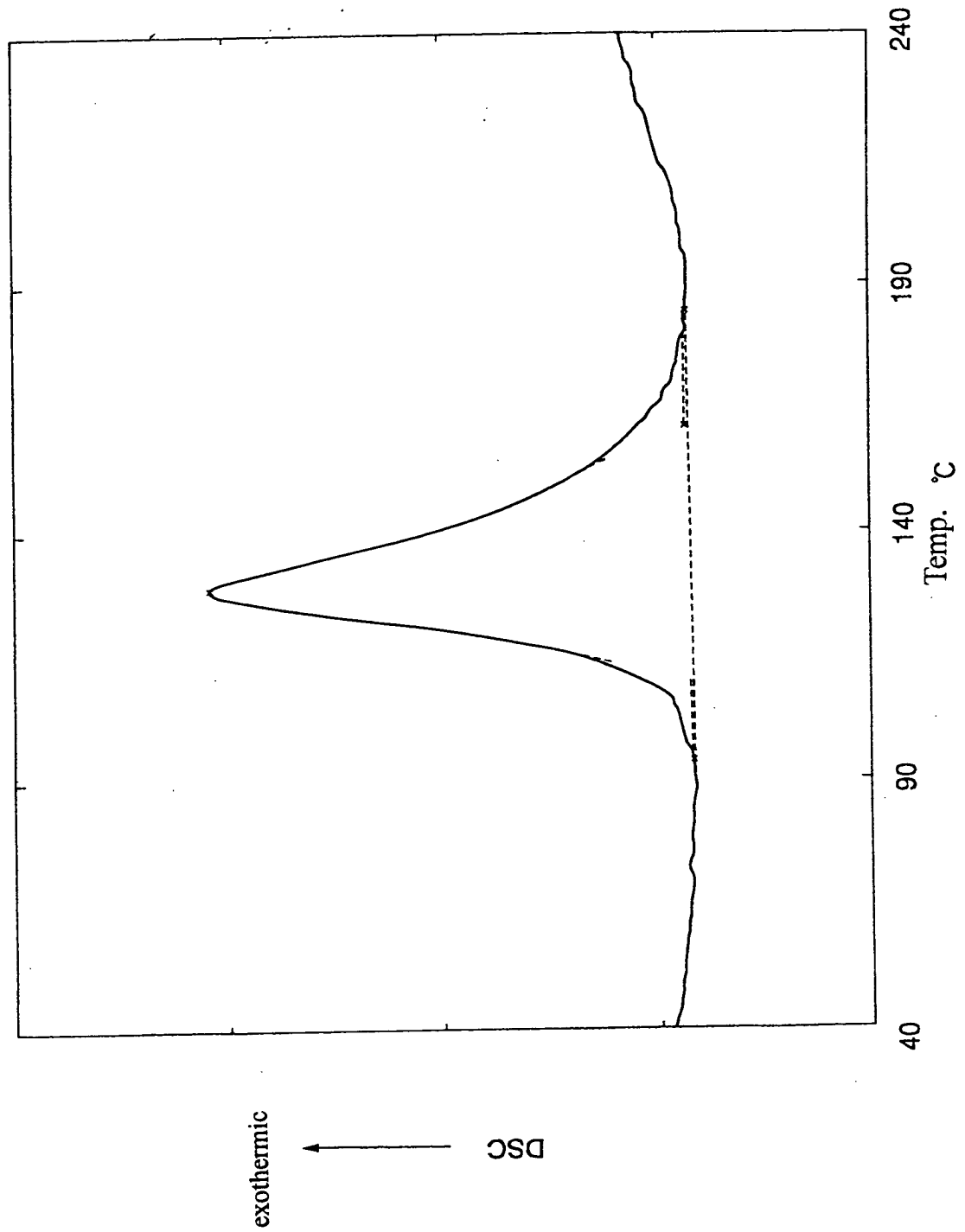




Figure 65

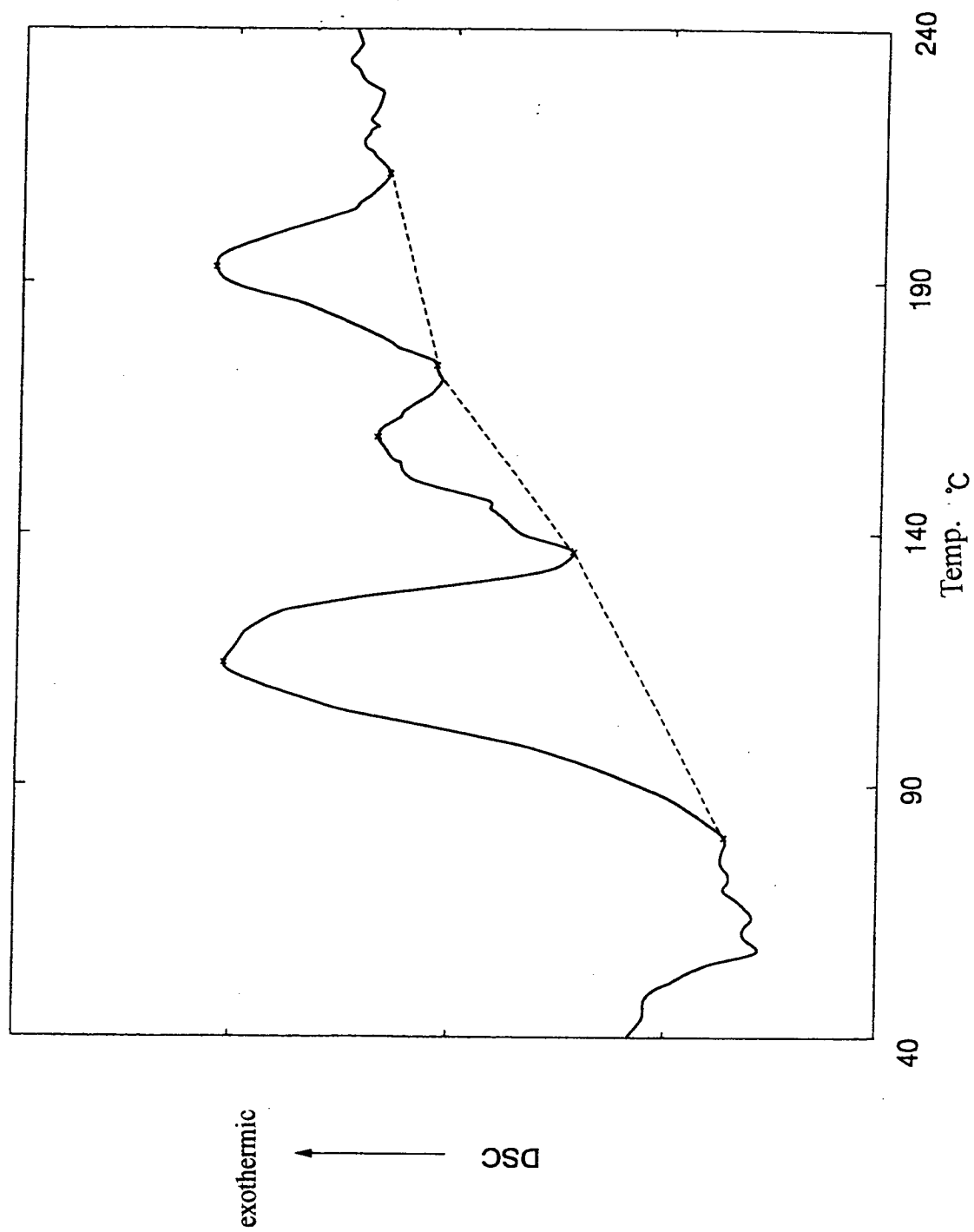


Figure 66

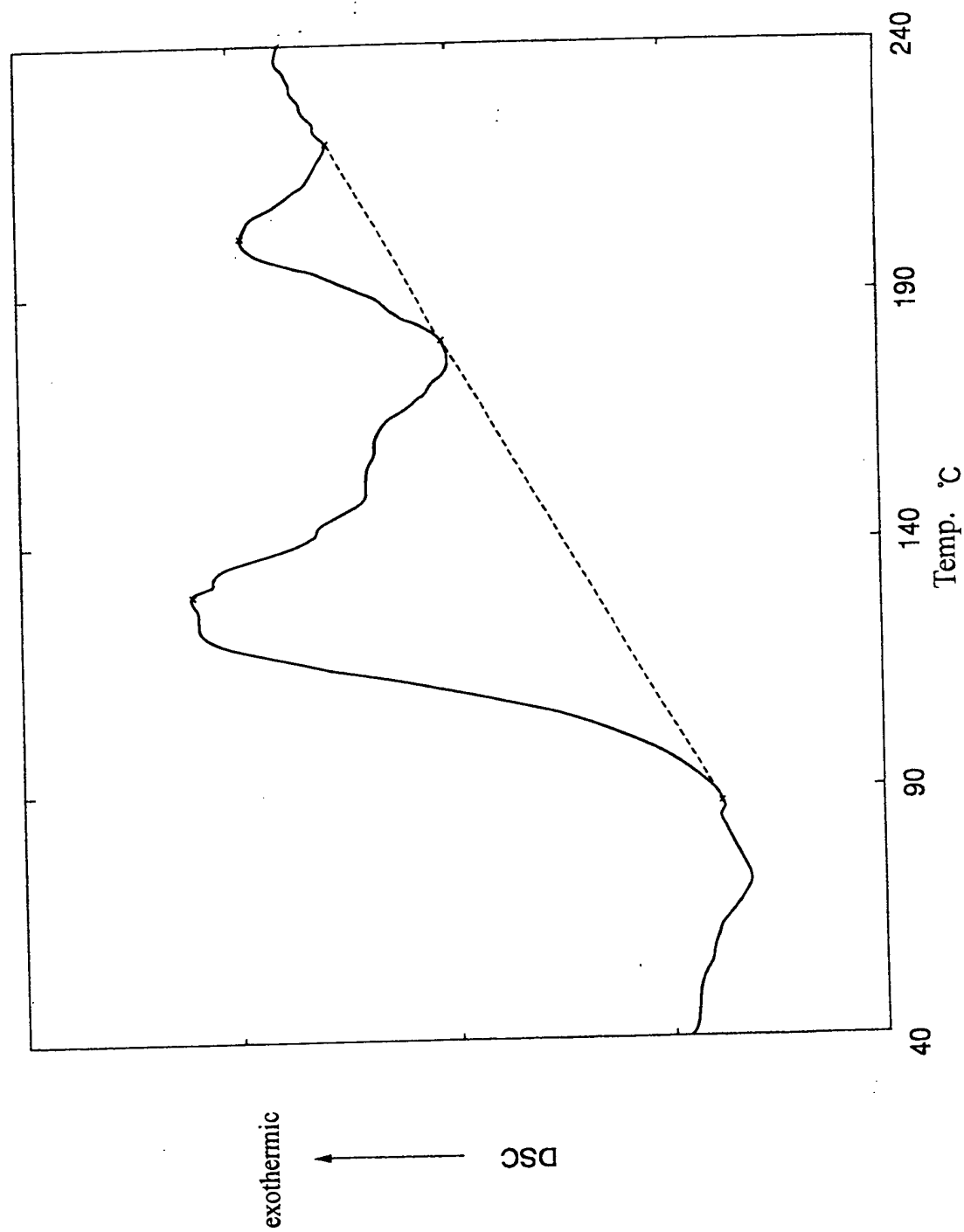


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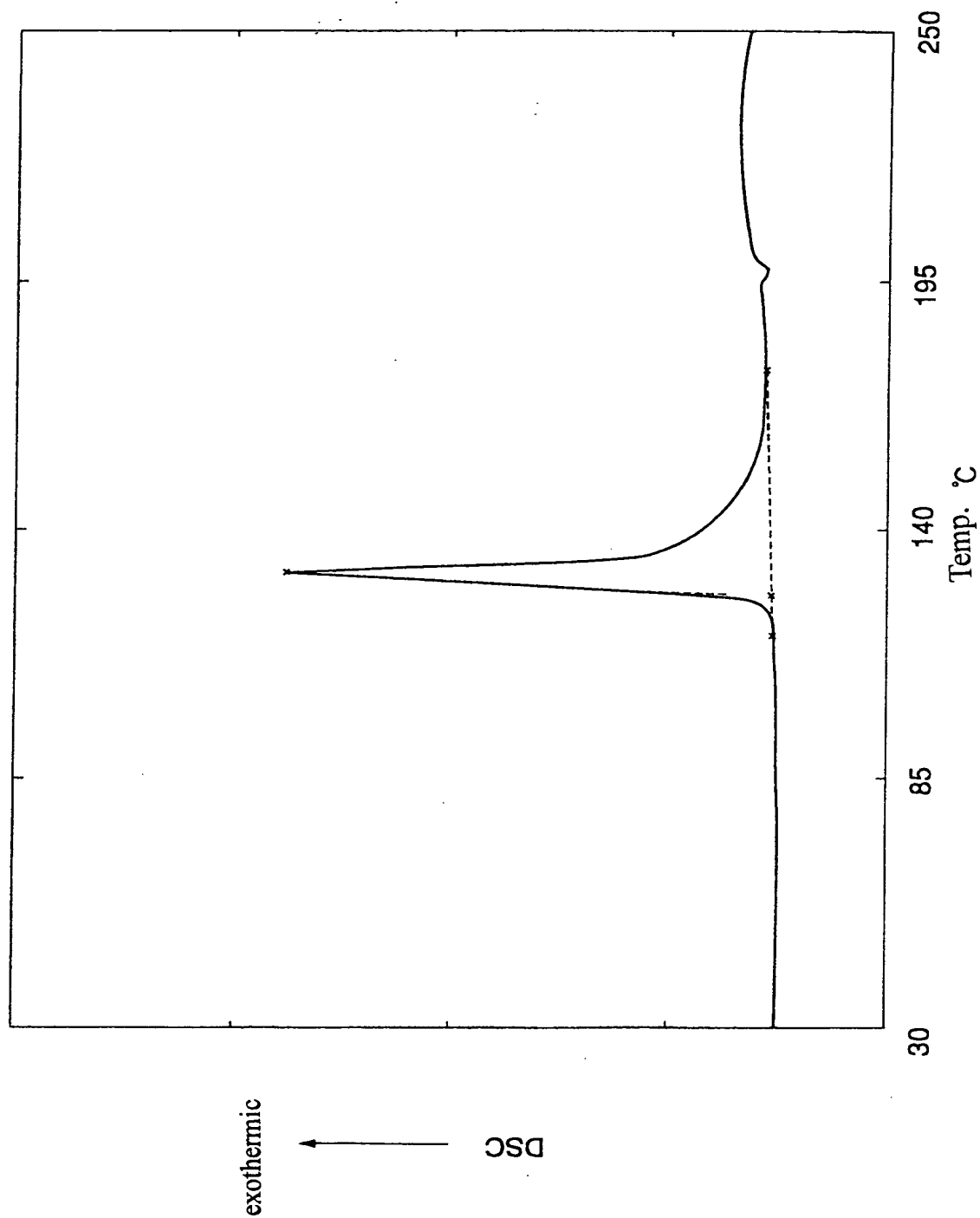


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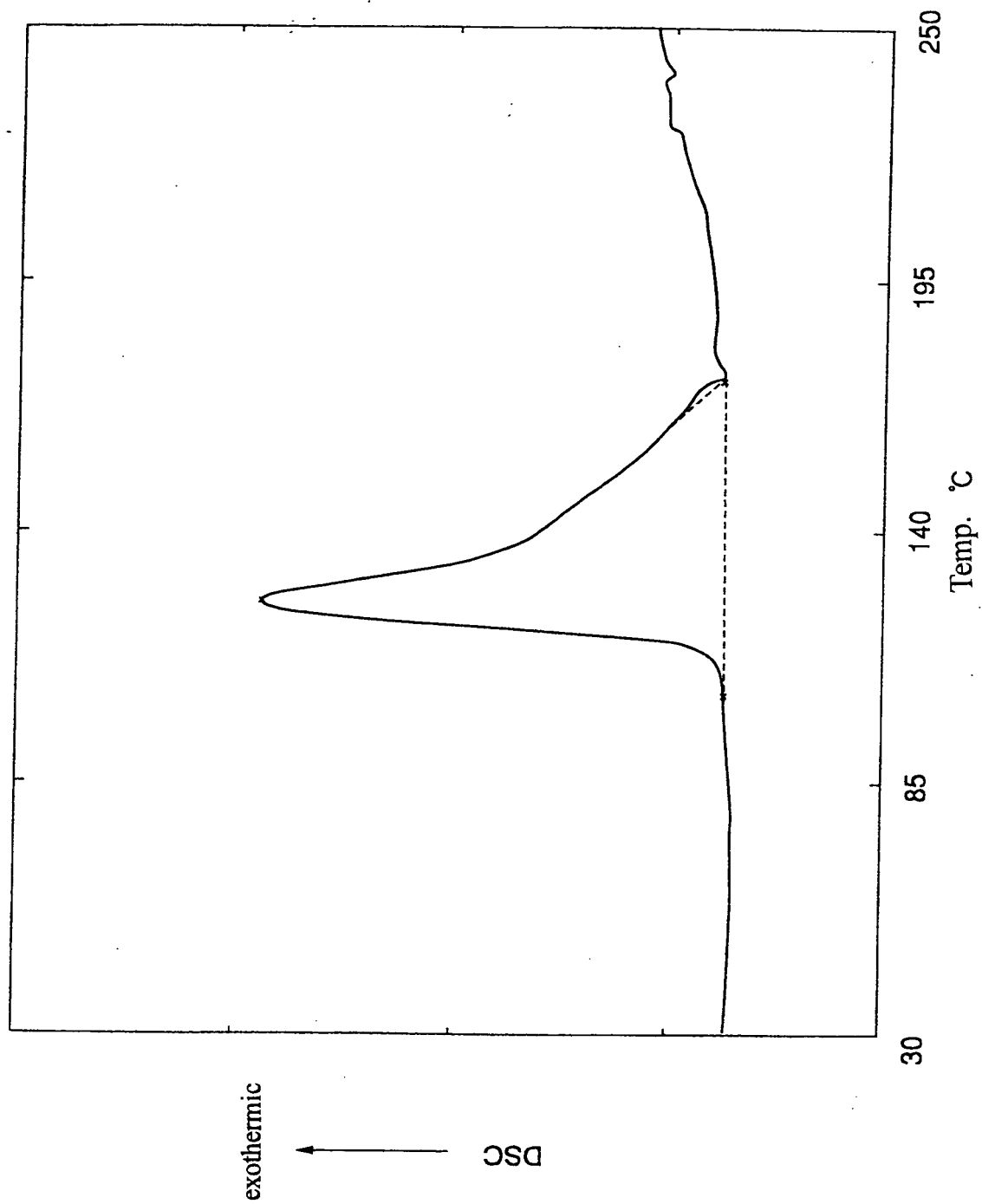


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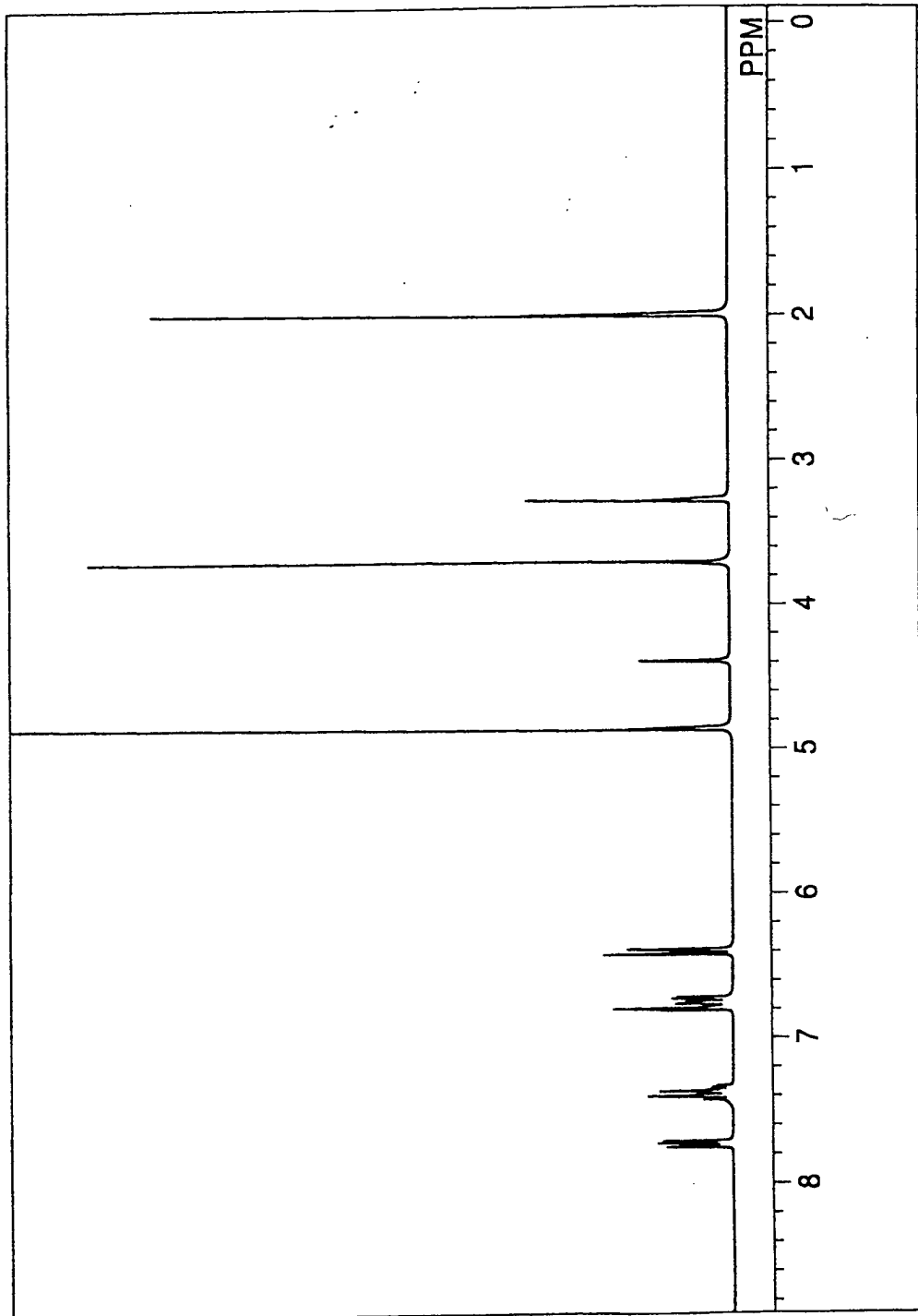


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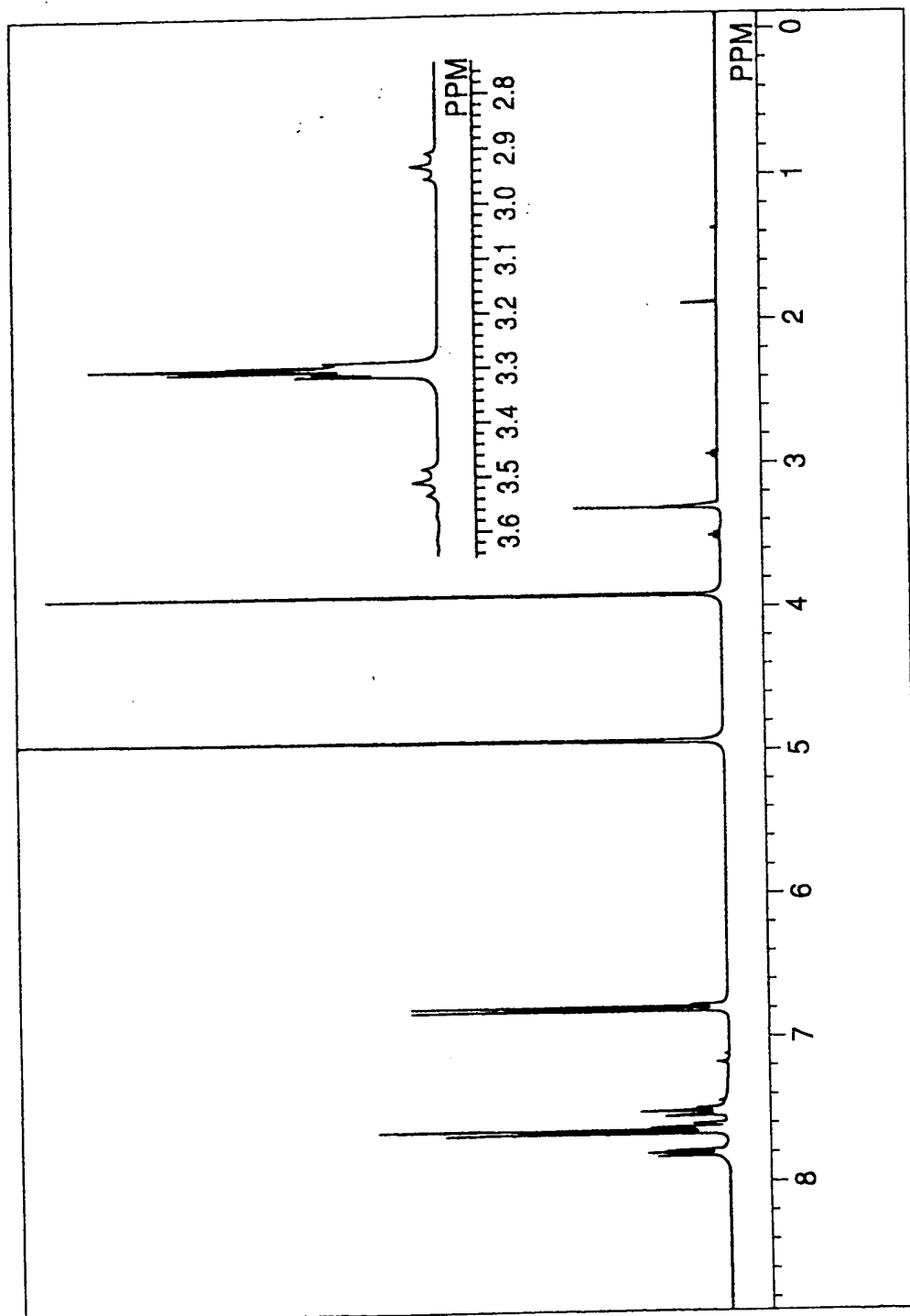


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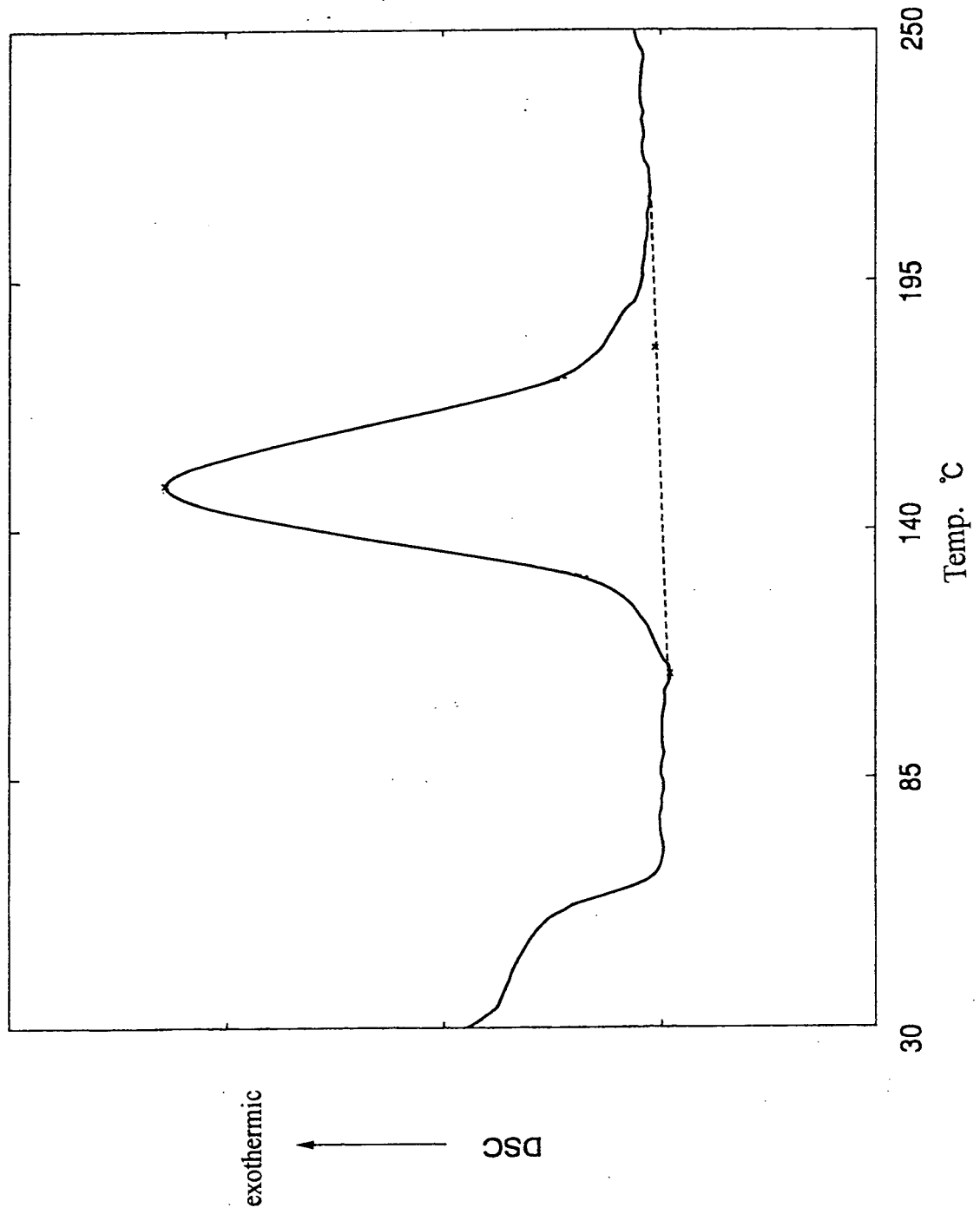


Figure 72

